EXHIBIT B35

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		1 APPEARANCES OF COUNSEL (continued)
		2
1 2	IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY	 3 On behalf of the Defendant, Johnson & Johnson & Johnson Consumer 4 Inc.:
3 4 5 6 7	IN RE: JOHNSON & JOHNSON) TALCUM POWDER PRODUCTS) MARKETING SALES) PRACTICES, AND PRODUCTS LIABILITY LITIGATION)	5 ALEX V. CHACHKES, Esq. NINA TROVATO, Esq. 6 Orrick, Herrington & Sutcliffe, LLP 51 West 52nd Street 7 New York, New York 10019-1642 Achachkes@orrick.com 8 Ntrovato@orrick.com
8 9 10 11 12 13	VIDEO-RECORDED DEPOSITION OF MARK W. RIGLER, PH.D.	9 JACK N. FROST, JR., Esq. 10 Drinker Biddle & Reath LLP 600 Campus Drive 11 Florham Park, New Jersey 07932-1047 Jack.frost@dbr.com 12
13 14 15	February 6, 2019 9:14 a.m.	On behalf of the Defendant,Imerys Talc America, Inc.:
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1 2	APPEARANCES OF COUNSEL	1 APPEARANCES OF COUNSEL (continued)
	On habelf of the Distriction	2
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6 7 8 9 10 11 12 13 14 15	3rd Floor Woodland Hills, California 91367 Lee.cirsch@lanierlawfirm.com P. LEIGH O'DELL, Esq. Beasley Allen Law Firm 218 Commerce Street Montgomery, Alabama 36103-4160 Leigh.odell@beasleyallen.com MICHELLE A. PARFITT, Esq. JAMES GREEN, Esq. Ashcraft & Gerel, LLP 1825 K. Street Suite 700 Washington, D.C. 20036 Mparfitt@ashcraftlaw.com DENNIS M. GEIER, Esq. Cohen Placitella Roth, PC	MICHAEL ANDERTON, Esq. Tucker Ellis, LLP 950 Main Avenue Suite 1100 Cleveland, Ohio 44113-7213 Michael.anderton@tuckerellis.com On behalf of the Defendant, PCPC: REBECCA WOODS, Esq. Seyfarth Shaw 1 1075 Peachtree Street, NE Suite 2500 Atlanta, Georgia 30309 Rwoods@seyfarth.com Also Present: George Montiel, Videographer George Montiel, Videographer George Montiel, Videographer
6 7 8 9 10 11 12 13 14 15 16	3rd Floor Woodland Hills, California 91367 Lee.cirsch@lanierlawfirm.com P. LEIGH O'DELL, Esq. Beasley Allen Law Firm 218 Commerce Street Montgomery, Alabama 36103-4160 Leigh.odell@beasleyallen.com MICHELLE A. PARFITT, Esq. JAMES GREEN, Esq. Ashcraft & Gerel, LLP 1825 K. Street Suite 700 Washington, D.C. 20036 Mparfitt@ashcraftlaw.com DENNIS M. GEIER, Esq. Cohen Placitella Roth, PC 127 Maple Avenue Red Bank, New Jersey 07701	MICHAEL ANDERTON, Esq. Tucker Ellis, LLP 950 Main Avenue Suite 1100 Cleveland, Ohio 44113-7213 Michael.anderton@tuckerellis.com No behalf of the Defendant, PCPC: REBECCA WOODS, Esq. Seyfarth Shaw 11 1075 Peachtree Street, NE Suite 2500 Atlanta, Georgia 30309 Rwoods@seyfarth.com Also Present: George Montiel, Videographer George Montiel, Videographer George Montiel, Videographer Fig. 17 March 18 March 210 March 210
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	3rd Floor Woodland Hills, California 91367 Lee.cirsch@lanierlawfirm.com P. LEIGH O'DELL, Esq. Beasley Allen Law Firm 218 Commerce Street Montgomery, Alabama 36103-4160 Leigh.odell@beasleyallen.com MICHELLE A. PARFITT, Esq. JAMES GREEN, Esq. Ashcraft & Gerel, LLP 1825 K. Street Suite 700 Washington, D.C. 20036 Mparfitt@ashcraftlaw.com DENNIS M. GEIER, Esq. Cohen Placitella Roth, PC 127 Maple Avenue Red Bank, New Jersey 07701	MICHAEL ANDERTON, Esq. Tucker Ellis, LLP 950 Main Avenue Suite 1100 Cleveland, Ohio 44113-7213 Michael.anderton@tuckerellis.com Non behalf of the Defendant, PCPC: REBECCA WOODS, Esq. Seyfarth Shaw 11 1075 Peachtree Street, NE Suite 2500 Atlanta, Georgia 30309 Rwoods@seyfarth.com Also Present: George Montiel, Videographer George Montiel, Videographer George Montiel, Videographer George Montiel, Videographer The series of the Defendant, Michael Street, NE Suite 2500 Michael Street, NE

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1		INDEX TO EXAMINA	ATIONS	3		1	(Reporter disclosure made pursuant to
2		INDEX TO EXAMINA	<u> </u>			2	` .
3	F	<u>Examination</u>	<u>Page</u>			3	-
4	<u>.</u>	<u> -xamination</u>	rage			4	
5	Evamin	ation by Mr. Chachkes		7		5	
6				214		6	
		ation by Mr. Silver					3 1
7	Examin	ation by Ms. O'Dell		219		7	, ,
8						8	, ,
9					09:13:39	9	
10						10	
11					09:13:42		
12					09:13:42		5.
13						13	· · · · · · · · · · · · · · · · · · ·
14						14	
15					09:14:52		• •
16						16	
17						17	,
18						18	
19						19	, ,
20					09:15:01	20	deposition open. I assume you have the same?
21					09:15:03	21	MS. O'DELL: We have the same opposition.
22					09:15:06	22	Q. (By Mr. Chachkes) Okay. So what I've
23					09:15:07	23	done is I've brought some exhibits from yesterday, so
24					09:15:10	24	4 if you're wondering why there's stamps on them, it's
25					09:15:14	25	because they're the stamps from Dr. Longo's
	Atlanta R	eporters, Inc. 866-344-0459	www.atlanta	•			Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
1		INDEX TO EXHIB	ITS	6			8
					09:15:17	1	deposition. We are going to use some of the same
2	Defenda	nts'			09:15:19	2	exhibits, if that's okay.
3	<u>Exhibit</u>	<u>Description</u>	<u>Page</u>		09:15:20	3	3 A. Yes.
4					09:15:20	4	Q. So what's been marked yesterday so all
-	1	Invoices		204	09:15:22	5	the stamps are February 5, 2019, Longo. And I'm
5	2	Excerpt - Trial transcript	,	136	09:15:28	6	going to use those exhibits unless I use a new
6		February 20, 2018, Vol.	XIV, Lanzo		09:15:31	7	7 exhibit.
7		vs. Cyprus Amax			09:15:31	8	B A. Okay.
	3	MAS TEM Coefficient of V		173	09:15:32	9	Q. So I'm just going to hand you what's been
8		Tremolite and Anthophyl A Quality Control Study,			09:15:33	10	marked yesterday as Exhibit 2. And you recognize
9	4	Cranh		177	09:15:36	11	1 that as the January 15 version of the report that you
10	4	Graph		177	09:15:40	12	2 cosigned?
11					09:15:41	13	3 A. Yes.
- 11					09:15:41	14	Q. Okay. And what was your involvement in
12		inal Exhibits 1 through 4 h I to the original transcript.			09:15:44	15	drafting this report?
13	attachet	i to the original transcript.)		09:15:46	16	A. I reviewed the report, looked over the
14		-			09:15:50	17	7 data, and made typographical and grammatical
14		- 			09:15:55	18	B corrections throughout the report.
15 16					09:15:57	19	Q. Okay. Do you feel qualified to testify to
17					09:16:05	20	every matter that's in that report?
18 19					09:16:07	21	MS. O'DELL: Object to the form.
					09:16:08	22	THE WITNESS: As I say, I am qualified to
20					09:16:12	23	testify on what's in this report now, yes.
21							
21 22 23					09:16:14	24	Q. (By Mr. Chachkes) Okay. So if Dr. Longo
21 22 23 24					09:16:14 09:16:17		
21 22 23	Atlanta R	eporters, Inc. 866-344-0459	www.atlanta	-reporters.com			

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09:16:20 1	·	09:18:40	THE WITNESS: Well, in terms of looking at
•	could testify to everything that you could testify		,
	to?		data, quality control issues, that type of
4	A. Well, I'm not Dr. Longo, of course.	09:18:45	thing, which would be part of the study, I would
09:16:26 4 09:16:29 5	However, I can testify as to what's in this report,	09:18:47 4 09:18:49 5	say, yes, I was part of that.
	O Okay To what degree is Dr. Longo more	_	Q. (By Mr. Chachkes) Okay. So the actual experimentation process, the people call it wet
09:16:29 6	Q. Okay. To what degree is Dr. Longo more	l _	work; are you familiar with that?
09:16:33	qualified about something in that report than you?	09:18:54 7	, ,
09:16:36	A. Dr. Longo has a degree in materials	09:18:55	A. Yes.
09:16:39 9	science, and my degree is in microbiology, my Ph.D.	09:18:56 9	Q. Okay. So the actual experimental process
09:16:44 10 09:16:53 11	So he has more experience in the materials area, so I	09:18:58 10 09:19:01 11	and the wet work, you did not participate in that?
09:16:53	would, you know, defer to him on those topics.	09:19:01 11	A. Again, Dr. Longo directed those activities in this study; and again, I will defer those things
09:16:57 12	Q. Okay. Well, there's no microbiology in the report; right?	09:19:06 12	
09:17:01 13		09:19:10 13	to him, you know, if once we get to those topics
09:17:02 14	A. Not that I know of, no. But there are microscopic things in the report, and that's one of	09:19:14 14	• • •
09:17:04 13	my areas of qualification, electron microscopy and	09:19:17 13	we're talking about things in general. Q. I'm not asking about Dr. Longo. I'm
09:17:07 10	the microscopic world, if you will.	09:19:18 10	Q. I'm not asking about Dr. Longo. I'm asking about you.
09:17:12 17		09:19:20 17	
09:17:14 10	•	09:19:20 10	
09:17:16 19	relative expertise. What about your relative ability	09:19:21 19	
09:17:19 20 09:17:23 21	to talk about substantive matters, data, you know,		did you participate in, if any?
09:17:23 21 09:17:26 22	what analysts did? Is there any difference there	09:19:24 21 09:19:28 22	A. I told you in the beginning what I did
09:17:26 22	between you and Dr. Longo?	09:19:28 22	here, which was mainly review the data, review the report for typographical or grammatical errors, also
09:17:27 23	A. Well, Dr. Longo is the head of the	09:19:31 23	
09:17:31 24	laboratory, so I would defer to him on a number of	09:19:36 24	checking data, that type of thing. Q. So can you confirm you did not participate
09:17:35 ZJ	those areas, and specific areas.	09:19:38 🛂	, , , , , , , , , , , , , , , , , , , ,
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09:17:38 1	Q. Okay. For example?	09:19:41 1	in the actual experimenting that's reported on in the
09:17:39 2	A. Well, for example, there may be some	09:19:41 2	exhibit?
09:17:42 3	situations where he directed the study and that	09:19:44 3	MS. O'DELL: Object to the form.
09:17:49 4	would I would defer those things to him.	09:19:47	THE WITNESS: Again, I was part of the
09:17:51 5	Q. Did you direct any of the studies in that	09:19:48 5	study working on part of the study, so I
09:17:54 6	report?	09:19:50	consider myself as someone who participated in
09:17:54 7	A. As far as me directing the studies in	09:19:53 7	the study.
09:17:57	here, that was mainly Dr. Longo.	09:19:53	Q. (By Mr. Chachkes) Okay. So
09:17:58	Q. Okay. What studies in there did you	09:19:55	A. That's the way it works in the laboratory.
09:18:02 10	direct?	09:19:57 10	Q. Let's be more specific.
09:18:03 11	A. Again, they were mainly directed by	09:19:58 11	A. Sure.
09:18:06 12	Dr. Longo.	09:19:59 12	Q. So you understand what an experiment is;
09:18:06 13	Q. You say mainly. I'm just wondering is	09:20:04 13	right?
09:18:09 14	there anything left over that you directed?	09:20:04 14	MS. O'DELL: In what context?
09:18:11 15	MS. O'DELL: Object to the form.	09:20:07 15	THE WITNESS: Yeah, in what context?
09:18:12 16	THE WITNESS: In terms of the study	09:20:08 16	Q. (By Mr. Chachkes) Okay. So you're
09:18:16 17	process, originally we conferred on it in the	09:20:09 17	unclear on what an experiment is?
09:18:20 18	very beginning, but Dr. Longo was the one who	09:20:11 18	A. No, I'm not unclear on what an experiment
09:18:24 19	mainly carried out the processes and direction	09:20:13 19	is. I'm wondering what you're asking as far as your
09:18:28 20	of the studies.	09:20:15 20	question.
09:18:29 21	Q. (By Mr. Chachkes) Okay. So the	09:20:15 21	Q. What does the word experiment mean to you?
09:18:31 22	conceptualization of the experimental procedures you	09:20:17 22	A. Well, it would be a set of tests after
09:18:35 23	participated, but in the actual execution you did not	09:20:21 23	coming up with a hypothesis about a particular
09:18:38 24	participate?	09:20:23 24	situation what the questions are.
09:18:39 25	MS. O'DELL: Object to the form.	09:20:25 25	Q. Let's use your definition. Were you
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Ou	30 0.10	-md-02738-MAS-RLS Document 973:)-9	LIIE	u us/u/	/19 Page 5 of 59 PageID: 35073
09:20:26 1	involved	in any experiments where you were actually	09:22:48	1		u had the data?
09:20:29 2		- testing J&J bottles of talc?	09:22:49	_	A.	Well, then I would review the data, go
09:20:35 3	A.	I was not I was not handling and	09:22:54	3		the data, and then see again if it met the QC
09:20:39 4		the talc myself. Our analysts in the	09:22:59	4	qualifica	-
09:20:42 5	_	ory were directed to do that.	09:22:01	5	Q.	Okay. Anything else that you did once the
09:20:44	Q.	Did you ever use a PLM for the purposes of	09:23:03	_	data was	· · · ·
09:20:48 7	this repo		09:23:04	7	A.	Not that I can recall as I sit here.
	<u>Α.</u>	No, I did not.	09:23:04	_	Q.	Okay. During any of the experiments did
09:20:49 8	Q.	Did you ever use a TEM for the purposes of	09:23:13	_		ver the shoulder of any analyst and watch
09:20:50	this repo		09:23:13		-	they were doing?
09:20:53	<u>А.</u>	Not for the purposes of this report.	09:23:17		A.	Yeah. I'm at the laboratory mostly on a
09:20:55 12	Q.	Did you ever use an XRD device for the	09:23:18			sis, so I was able to go in and look and see
09:20:59 13		of this report?	09:23:25		=	alysts were doing at any particular time.
09:20:59 13	A.	We do not have the XRD device or that type	09:23:25		Q.	Okay. Were you substantively contributing
09:21:01 14		e at our laboratory.	09:23:28			moments when you were looking at what
09:21:04 15	Q.	Did you ever do an SAED experiment for the	09:23:33			were doing?
09:21:08 17			09:23:35		•	What do you mean by that?
09:21:08 17		of this report? Again, same answer as with the TEM.	09:23:36		A. Q.	Well, were you telling them to change
09:21:10 10	Α.					
09:21:13 19	Q. A.	So that's a no? Correct.	09:23:41 09:23:43			avior or to do something that they weren't e going to do? Anything that affected their
09:21:16 21			09:23:43			, ,
09:21:16 21	Q.	Okay. And did you ever do EDXA work	09:23:46		experime	ntal work?
09:21:21 22	-	ents on J&J bottles of talc for this report?	09:23:47 09:23:48			MS. O'DELL: Object to the form.
09:21:24 23	Α.	That would be the same answer. Which is a no?	09:23:48		0	THE WITNESS: No. No.
	Q.				Q.	(By Mr. Chachkes) And so you're an
09:21:26 25	A.	Yes.	09:23:52	25	employee	
	Alianta Re	eporters, Inc. 866-344-0459 www.atlanta-reporters.com			Aliania Re	porters, Inc. 866-344-0459 www.atlanta-reporters.com
						4.0
4	_	14			_	16
09:21:27	Q.	And did you let's so once the	09:23:53		Α.	Yes.
09:21:36 2	experime	And did you let's so once the ents were done and you saw the data, did you	09:23:53	2	Q.	Yes. How long have you been an employee there?
09:21:36 2 09:21:39 3	experime do any s	And did you let's so once the ents were done and you saw the data, did you ubstantive contribution to the report other	09:23:53 09:23:55	2	Q. A.	Yes. How long have you been an employee there? Over 30 years.
09:21:36 2 09:21:39 3 09:21:46 4	experime do any s	And did you let's so once the ents were done and you saw the data, did you ubstantive contribution to the report other rect typos?	09:23:53 09:23:55 09:23:57	2 3 4	Q. A. Q.	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there
09:21:36 2 09:21:39 3 09:21:46 4 09:21:47 5	experime do any s	And did you let's so once the ents were done and you saw the data, did you ubstantive contribution to the report other rect typos? MS. O'DELL: Object to the form.	09:23:53 09:23:55 09:23:57 09:24:04	2 3 4 5	Q. A. Q. any section	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you
09:21:36 2 09:21:39 3 09:21:46 4 09:21:47 5 09:21:48 6	experime do any si than corr	And did you let's so once the ents were done and you saw the data, did you ubstantive contribution to the report other rect typos? MS. O'DELL: Object to the form. THE WITNESS: In terms of looking at what	09:23:53 09:23:55 09:23:57 09:24:04 09:24:06	2 3 4 5 6	Q. A. Q.	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you rk on?
09:21:36 2 09:21:39 3 09:21:46 4 09:21:47 5 09:21:48 6 09:21:50 7	experime do any si than corr was	And did you let's so once the ents were done and you saw the data, did you substantive contribution to the report other rect typos? MS. O'DELL: Object to the form. THE WITNESS: In terms of looking at what done during the study and working with the	09:23:53 09:23:55 09:23:57 09:24:04 09:24:06 09:24:08	2 3 4 5 6 7	Q. A. Q. any section	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you rk on? MS. O'DELL: Object to the form.
09:21:36 2 09:21:39 3 09:21:46 4 09:21:47 5 09:21:48 6 09:21:50 7 09:21:55 8	experime do any si than corr was TEM	And did you let's so once the ents were done and you saw the data, did you substantive contribution to the report other rect typos? MS. O'DELL: Object to the form. THE WITNESS: In terms of looking at what done during the study and working with the manager on the study and the quality	09:23:53 09:23:55 09:23:57 09:24:04 09:24:06 09:24:08	2 3 4 5 6 7 8	Q. A. Q. any section didn't wo	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you rk on? MS. O'DELL: Object to the form. THE WITNESS: I would have to look. If
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09:21:36	experime do any si than corr was TEM cont Q. more spe that? A. done in replicate tested in the QC s Q. A. NIST, th Technol asbesto Q.	And did you let's so once the ents were done and you saw the data, did you obstantive contribution to the report other rect typos? MS. O'DELL: Object to the form. THE WITNESS: In terms of looking at what done during the study and working with the manager on the study and the quality crol, yes. (By Mr. Chachkes) Okay. So can you be ecific? So you did quality control. What's Well, I monitored the reporting that was terms of what samples were analyzed, what es, duplicates, and blanks that would be a terms of what were necessary for us to meet standards. Okay. And who set the QC standards? Well, the QC standards are set by NVLAP are National Institutes of Standard and ogy, for TEM labs that are analyzing for ss. Other than ensure that folks complied with	09:23:53 09:23:55 09:23:57 09:24:04 09:24:08 09:24:09 09:24:14 09:24:16 09:24:17 09:24:20 09:24:24 09:24:28 09:24:29 09:24:32 09:24:39 09:24:39 09:24:41 09:24:41	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. A. Q. any section didn't wo you'n here Q. expert re A. Q. in all other A. Q. underlyin A. idea. Q. A. Q.	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you rk on? MS. O'DELL: Object to the form. THE WITNESS: I would have to look. If re talking about the reports in front of me (By Mr. Chachkes) Yes, the January 15 port for the MDL. The J3 portions of the report. And you would say you had some involvement er portions? In other portions, yes. How much time did you devote to the work g this report and the report itself? I didn't keep track of it. I have no Over 10 hours? Probably over 10 hours. Over 20 hours?
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09:21:36	experimedo any sithan corrivation of the control of	And did you let's so once the ents were done and you saw the data, did you obstantive contribution to the report other rect typos? MS. O'DELL: Object to the form. THE WITNESS: In terms of looking at what done during the study and working with the manager on the study and the quality crol, yes. (By Mr. Chachkes) Okay. So can you be ecific? So you did quality control. What's Well, I monitored the reporting that was terms of what samples were analyzed, what es, duplicates, and blanks that would be a terms of what were necessary for us to meet standards. Okay. And who set the QC standards? Well, the QC standards are set by NVLAP are National Institutes of Standard and ogy, for TEM labs that are analyzing for ss. Other than ensure that folks complied with	09:23:53 09:23:55 09:23:57 09:24:04 09:24:08 09:24:09 09:24:14 09:24:16 09:24:17 09:24:20 09:24:24 09:24:28 09:24:29 09:24:32 09:24:39 09:24:39 09:24:41 09:24:41	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. A. Q. any section didn't wo you'n here Q. expert re A. Q. in all other A. underlyin A. idea. Q. A. don't kn	Yes. How long have you been an employee there? Over 30 years. Let's go back to the report. Are there ons of the report that you can say you rk on? MS. O'DELL: Object to the form. THE WITNESS: I would have to look. If re talking about the reports in front of me (By Mr. Chachkes) Yes, the January 15 port for the MDL. The J3 portions of the report. And you would say you had some involvement er portions? In other portions, yes. How much time did you devote to the work g this report and the report itself? I didn't keep track of it. I have no Over 10 hours? Probably over 10 hours. Over 20 hours?

Ca	SC 3.10	-Mu-02738-MAS-KLS - Document 973 17	9 1	1110	u 03/07	/19 Page 6 of 59 PageID: 35074
09:24:47 1	Q.	More than 15 hours?	09:26:49	1	Q.	Do you consider yourself an expert in TEM
09:24:48 2	Α.	I don't know.	09:26:56	2	analysis?	
09:24:49 3	Q.	So probably over 10 hours, but you don't	09:26:56	3	Α.	Well, the term expert, I think, you
09:24:52 4	know bey	yond that?	09:27:00	4	probably	have to defer that to the court. I mean, I
09:24:52 5	Α.	Correct.	09:27:04	5	have mo	re than the layperson's knowledge so but I
09:24:53 6	Q.	Okay. And were you involved in the	09:27:08	6	would de	efer that to the court.
09:24:58 7	creation	of the protocols to test J&J talc in this	09:27:10	7	Q.	Okay. Have you
09:25:03	case?	·	09:27:13	8	Α.	I mean, I've been qualified as an expert
09:25:04	A.	In terms of the protocols for the testing,	09:27:16	9	before, b	out in this case
09:25:09 10	we used	standard methods throughout for the analysis.	09:27:19	10	Q.	When is the first time you ever used a
09:25:14 11	Dr. Long	go essentially put together the way the test	09:27:21	11	TEM?	·
09:25:18 12	or the s	tudy was going to be done, but we, you know,	09:27:21	12	Α.	The first time I used a TEM? Let's see.
09:25:21 13		use the standard methods throughout.	09:27:24	13	That wo	uld probably have been sometime in the early
09:25:23 14	Q.	When you say Dr. Longo put together the	09:27:29	14		ould say, yeah.
09:25:26 15	way yo	ou said the way the studies would be	09:27:31	15	Q.	How many times have you used an SAED to
09:25:28 16	conducte		09:27:35	16	character	ize a particle?
09:25:29 17	Α.	Yes.	09:27:36	17	Α.	SAED?
09:25:29 18	Q.	Was that something in writing?	09:27:37	18	Q.	SAED.
09:25:31 19	A.	Well, he directs the study on a daily	09:27:39	19	A.	I don't know if I could count the number
09:25:35 20	basis.		09:27:40	20	of times	
09:25:35 21	Q.	The question is was it in writing?	09:27:41		Q.	How many times have you used EDXA to
09:25:38 22	A.	Was it in writing? I don't know. You'd	09:27:45	22	character	ize a particle?
09:25:42 23	have to	ask Dr. Longo.	09:27:47	23	Α.	Same answer on that. Yes.
09:25:43 24	Q.	Okay. So you're unaware of whether he	09:27:48	24	Q.	What about PLM, do you consider yourself
09:25:46 25	commun	icated with the analysts about protocol in	09:27:53	25	an expert	
	Atlanta Do					
	Alianta Ne	eporters, Inc. 866-344-0459 www.atlanta-reporters.com			Atlanta Re	porters, Inc. 866-344-0459 www.atlanta-reporters.com
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09:33:57	iust mine	rals you're looking at?	09:35:56	1	Α.	No, I'm not a medical doctor.
09:33:58 2	A.	The answer to that is yes.	09:35:57	2	Q.	Okay. You don't have any medical
09:34:00 3	Q.	Okay. Can you give me an example?	09:35:59	•	training?	ordy. Too don't have any medical
	Q. A.	Again, I will go back to studies that		4	A.	Well, the medical training I have is
09:34:02 4			09:36:00	_		•
		one on client samples over the years, most of	09:36:03	6		to my training as a in undergraduate as a
09:34:10 6		ing particulate types of samples. In the	09:36:09	-	_	t. The curriculum that I took at Villanova
09:34:13 7	-	ys when I came to MAS, we were looking at a	09:36:15	_		premed, and that included courses that
09:34:16		bestos-bearing materials. So part of my	09:36:18	_		would take prior to medical school, things
09:34:21 9		at the company was looking at those	09:36:21			otechnique, which is the study of how you
09:34:24 10		s by SEM or TEM.	09:36:26			tissues, how to prepare and section those
09:34:26 11	Q.	Okay. So those asbestos-bearing materials	09:36:29			Also, you know, you would I took
09:34:28 12	were only	minerals, the you say asbestos-bearing,	09:36:33		compara	tive anatomy. I taught anatomy at Emory
09:34:32 13	but the th	ning that was bearing them was minerals?	09:36:38		Universi	ty for a semester down here in Atlanta.
09:34:34 14	A.	Yeah. I mean, if you're looking at	09:36:42			So I have training in a number of areas
09:34:36 15	somethi	ng like vermiculite, you know, pure yeah.	09:36:45	15		tors would have, all the way from neurology
09:34:39 16	Q.	Got it. Did you take any crystallography	09:36:49		to patho	logy, that type of thing.
09:34:43 17	courses c	luring your education?	09:36:50	17	Q.	You're not a statistician?
09:34:44 18	A.	Once again, that's part of the TEM	09:36:52	18	A.	No. But we use statistics in our work.
09:34:47 19	training	that I got.	09:36:55	19	Q.	Okay. You're not a geostatistician?
09:34:48 20	Q.	Okay. Was the TEM training you got, that	09:36:58	20	A.	No.
09:34:50 21	was, I'm	sorry, in college?	09:36:58	21	Q.	Have you ever created a method for
09:34:52 22	A.	Yeah, in graduate school.	09:37:10	22	microsco	py investigation that has been published in a
09:34:53 23	Q.	Graduate school. Was that a particular	09:37:15	23	peer-revi	ewed publication?
09:34:55 24	course, o	r was that just part of your thesis work?	09:37:15	24	A.	Yes.
09:34:58 25	A.	No, that's a course. They had courses in	09:37:16	25	Q.	Can you give me an example?
	Atlanta Re	porters, Inc. 866-344-0459 www.atlanta-reporters.com			Atlanta Re	porters, Inc. 866-344-0459 www.atlanta-reporters.com
		26				28
09:35:01	scanning	26 g electron microscopy and transmission	09:37:18	1	Α.	28 I would say we did a study a number of
09:35:01 1 09:35:04 2			09:37:18 09:37:24	_		
	electron	g electron microscopy and transmission		_	years ag	I would say we did a study a number of
09:35:04 2	electron course t	g electron microscopy and transmission microscopy, and those were all part of the	09:37:24	2	years ag was a bl	I would say we did a study a number of go on the famous Kent Micronite filter. It
09:35:04 2 09:35:06 3	electron course t electron	g electron microscopy and transmission microscopy, and those were all part of the hat you took. You had to learn about	09:37:24 09:37:31	2 3 4	years ag was a bl and they	I would say we did a study a number of go on the famous Kent Micronite filter. It ue filter that was with made by Lorillard
09:35:04 2 09:35:06 3 09:35:11 4	electron course t electron	g electron microscopy and transmission microscopy, and those were all part of the hat you took. You had to learn about optics; you had to learn about how electrons with materials. So that would all be part	09:37:24 09:37:31 09:37:36	2 3 4 5	years ag was a bl and they	I would say we did a study a number of go on the famous Kent Micronite filter. It ue filter that was with made by Lorillard go put that on cigarettes to essentially be a
09:35:04 2 09:35:06 3 09:35:11 4 09:35:14 5	electron course t electron interact	g electron microscopy and transmission microscopy, and those were all part of the hat you took. You had to learn about optics; you had to learn about how electrons with materials. So that would all be part aining.	09:37:24 09:37:31 09:37:36 09:37:40	2 3 4 5 6	years ag was a bl and they filtration	I would say we did a study a number of go on the famous Kent Micronite filter. It ue filter that was with made by Lorillard y put that on cigarettes to essentially be an device. So that was one that I did. Okay.
09:35:04 2 09:35:06 3 09:35:11 4 09:35:14 5 09:35:18 6	electron course t electron interact of my tra	g electron microscopy and transmission microscopy, and those were all part of the hat you took. You had to learn about optics; you had to learn about how electrons with materials. So that would all be part	09:37:24 09:37:31 09:37:36 09:37:40 09:37:44	2 3 4 5 6 7	years ag was a bl and they filtration Q.	I would say we did a study a number of go on the famous Kent Micronite filter. It ue filter that was with made by Lorillard put that on cigarettes to essentially be an device. So that was one that I did. Okay. And that was published.
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09:35:04 2 09:35:06 3 09:35:11 4 09:35:14 5 09:35:18 6 09:35:19 7 09:35:21 8 09:35:22 9	electron course t electron interact of my tra Q. A.	g electron microscopy and transmission microscopy, and those were all part of the hat you took. You had to learn about optics; you had to learn about how electrons with materials. So that would all be part aining. Okay. You're not a geologist?	09:37:24 09:37:31 09:37:36 09:37:40 09:37:44 09:37:45 09:37:46	2 3 4 5 6 7 8 9	years ag was a bl and they filtration Q. A. Q.	I would say we did a study a number of go on the famous Kent Micronite filter. It ue filter that was with made by Lorillard put that on cigarettes to essentially be an device. So that was one that I did. Okay. And that was published.
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09:38:30 1	we were working on a publication and somehow, some		L: The guestion was asked, and
09:38:35	way, some attorney groups got hold of it, and they	e:39:57 2 the witness ans	wered it.
09:38:39	influenced the editor on that document. So we don't		HKES: Okay.
09:38:43	talk about those things anymore.		R: Please note that Imerys will
09:38:45 5	Q. Okay. So pending question is: Are you	5 be	Trease note that merys will
09:38:48 6	working on a publication about finding talc in	_	RTER: I'm sorry, I can't hear
09:38:52	asbestos, and you are refusing to answer?	7 you.	KTER. 1111 3011 y, 1 can't ficul
09:38:54	MS. O'DELL: Object to the form.		R: Imerys will be calling the
9	THE WITNESS: No.		at the break to have the witness
09:38:55 10	MS. O'DELL: That's not what he said.	•	swer the question, but we will
09:38:56 11	Q. (By Mr. Chachkes) Okay. So are you	9:40:13 11 wait for a break	
09:38:57 12	working on a publication about finding talc in		nachkes) Okay. Has any
09:38:59 13	asbestos?		asked you to test talc?
09:38:59 13	A. No.		I know of, no.
09:39:00 15	MS. O'DELL: Object to the form.		chool of Public Health asked you
09:39:00 15	Q. (By Mr. Chachkes) I'm sorry. Are you	9:40:22 16 to test talc?	chool of Fublic Health asked you
09:39:01 17	working on a publication about finding asbestos in		Public Health, no.
09:39:02 17	talc?		ever taught any courses to train
09:39:04 19		. ,	ever taught any courses to train
09:39:04 19	MS. O'DELL: Object to the form.		you to that is you Tive been naut
09:39:05 20	THE WITNESS: I answered the question		ver to that is yes, I've been part
	twice.		-
09:39:07 22 09:39:09 23	Q. (By Mr. Chachkes) The answer is yes?		
09:39:09 23	A. I just answered the question twice. I		r of years ago at the American
09:39:11 24	said no.	• •	Conference there was a session on
09:39:11 23	Q. Okay. All right. Are you working on any	_	by of asbestos-bearing materials and
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	Atlanta Reporters, Inc.	866-344-0459 www.atlanta-reporters.com
			•
	30		32
09:39:18 1	publications about talc that you hope to get into the	9:40:52 1 I had a session in t	that.
09:39:20 2	publications about talc that you hope to get into the peer-reviewed literature?	9:40:53 2 Q. And you to	
09:39:20 2 09:39:21 3	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form.	9:40:53 2 Q. And you to 9:40:57 3 the participants?	that.
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09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:40 12 09:39:41 13 09:39:43 14	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer.	9:40:53	ever attended a McCrone training ver to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a old spore analysis?
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:40 12 09:39:41 13 09:39:41 13 09:39:45 15	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered.	9.40:53	ever attended a McCrone training ver to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a old spore analysis? as another group.
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:40 12 09:39:41 13 09:39:41 13 09:39:45 15 09:39:45 16	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can	2.40:53 2 Q. And you to the participants? 4 A. Yes. 2.40:57 4 A. Yes. 2.40:58 5 Q. Have you to or testing class? 2.41:05 7 A. The answ Q. Can you to see if that was McG was a different growth and participants. 2.41:21 12 analysis. 2.41:22 13 Q. Okay. So McCrone class for mcG was 15 A. No. It was participants? 3.41:28 16 Q. Okay. Have you to the participants? 4 A. Yes. 4 A. The answ Q. Can you to see if that was McG was a different growth analysis. 4 A. No. It was Q. Okay. Have you to the participants?	ever attended a McCrone training ver to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a old spore analysis? as another group. ve you ever attended a McCrone
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09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:41 13 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer?	240:53 2 Q. And you to the participants? 4 A. Yes. 240:57 4 A. Yes. 240:58 5 Q. Have you to or testing class? A. The answ. 241:07 8 Q. Can you to see if that was McG. 241:10 10 was a different ground analysis. 241:21 12 analysis. 241:22 13 Q. Okay. So. 241:24 14 McCrone class for mcG. 241:27 15 A. No. It was a different ground analysis. 241:28 16 Q. Okay. Have testing or training class. 241:29 18 A. Yes. 241:31 17 testing or training class. 241:32 18 A. Yes. 241:33 20 A. No. The or	ever attended a McCrone training ver to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that oup for training for mold spore you've tested you've tested a old spore analysis? as another group. we you ever attended a McCrone ass? one that we had, I believe at our
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:40 12 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20 09:39:49 21	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer? MS. O'DELL: Yes.	2.40:53 2 Q. And you to the participants? 3.40:57 4 A Yes. 3.40:58 5 Q. Have you to or testing class? 3.41:05 6 Or testing class? 3.41:07 8 Q. Can you to A. The answ to See if that was McC was a different grown analysis. 3.41:21 11 Q. Okay. So McCrone class for mcConnections f	ever attended a McCrone training ver to that is yes. ell me when? that I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a old spore analysis? as another group. ve you ever attended a McCrone ass? one that we had, I believe at our I them come in. Again, it was for
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:40 12 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20 09:39:49 21 09:39:50 22	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer? MS. O'DELL: Yes. THE WITNESS: No, that's an answer.	240:53 2 Q. And you to the participants? 4 A. Yes. 240:57 4 A. Yes. 240:58 5 Q. Have you to or testing class? A. The answ. 241:07 8 Q. Can you to see if that was McG. 241:18 10 was a different groundly analysis. 241:21 12 analysis. 241:22 13 Q. Okay. So. 241:22 14 McCrone class for mcG. 241:21 15 A. No. It was a different groundly analysis. 241:22 16 Q. Okay. Have testing or training class. 241:23 17 testing or training class. 241:32 18 A. Yes. 241:33 20 A. No. The G. 241:33 21 laboratory, we had mold analysis, mol	ever attended a McCrone training ver to that is yes. ell me when? that I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a old spore analysis? as another group. ve you ever attended a McCrone ass? one that we had, I believe at our I them come in. Again, it was for d spore analysis.
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:41 13 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20 09:39:49 21 09:39:50 22 09:39:51 23	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer? MS. O'DELL: Yes. THE WITNESS: No, that's an answer. MR. CHACHKES: Okay. And so, Counsel,	240:53 2 Q. And you to the participants? 4 A. Yes. 240:57 4 A. Yes. 240:58 5 Q. Have you to or testing class? A. The answ. 241:07 8 Q. Can you to see if that was McG. 241:10 10 was a different groundly analysis. 241:21 12 analysis. 241:22 13 Q. Okay. So. 241:24 14 McCrone class for mcG. 241:27 15 A. No. It was a different groundly analysis. 241:28 16 Q. Okay. Have testing or training class. 241:29 18 A. Yes. 241:31 17 testing or training class. 241:32 18 A. Yes. 241:33 20 A. No. The or	ever attended a McCrone training rer to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that oup for training for mold spore you've tested you've tested a old spore analysis? as another group. we you ever attended a McCrone ass? oos? one that we had, I believe at our I them come in. Again, it was for d spore analysis. McCrone testing or training
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:37 10 09:39:37 10 09:39:41 13 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20 09:39:49 21 09:39:40 22 09:39:51 23 09:39:51 24	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer? MS. O'DELL: Yes. THE WITNESS: No, that's an answer. MR. CHACHKES: Okay. And so, Counsel, that's your position, you're going to not allow	240:57	ever attended a McCrone training ver to that is yes. ell me when? that I wait a minute. Let me Crone. I think that was that bup for training for mold spore you've tested you've tested a bld spore analysis? as another group. we you ever attended a McCrone ass? cos? cone that we had, I believe at our I them come in. Again, it was for d spore analysis. McCrone testing or training attended?
09:39:20 2 09:39:21 3 09:39:22 4 09:39:25 5 09:39:31 6 09:39:31 7 09:39:32 8 09:39:35 9 09:39:37 10 09:39:39 11 09:39:41 13 09:39:41 13 09:39:45 15 09:39:45 16 09:39:47 17 18 19 20 09:39:49 21 09:39:50 22 09:39:51 23	publications about talc that you hope to get into the peer-reviewed literature? MS. O'DELL: Object to the form. THE WITNESS: I've already answered that question before, and I can neither confirm nor deny that right now. Q. (By Mr. Chachkes) Okay. I'll give you one more chance. If you would answer the question are you working on any publications about talc that you intend to put in the peer-reviewed literature, and you're refusing to answer? A. No, I'm not MS. O'DELL: Object to the form. THE WITNESS: I'm not refusing to answer. I've already answered. Q. (By Mr. Chachkes) Your answer is you can neither confirm nor deny? A. Correct. Q. And that's different from a refusal to answer? MS. O'DELL: Yes. THE WITNESS: No, that's an answer. MR. CHACHKES: Okay. And so, Counsel,	240:57 3 the participants? 4 A. Yes. 240:57 4 A. Yes. 240:58 5 Q. Have you be or testing class? A. The answ. 241:07 8 Q. Can you to see if that was McG. 241:10 10 was a different group analysis. 241:21 12 analysis. 241:22 13 Q. Okay. So. 241:24 14 McCrone class for mcG. 241:25 16 Q. Okay. Have testing or training class. 241:26 17 A. No. It was a different group analysis. 241:27 18 A. No. It was a different group analysis. 241:28 19 Q. For asbest A. Yes. 241:39 20 A. No. The G. 241:30 21 Laboratory, we had mold analysis, mold analysis. A. Not that:	ever attended a McCrone training rer to that is yes. ell me when? chat I wait a minute. Let me Crone. I think that was that oup for training for mold spore you've tested you've tested a old spore analysis? as another group. we you ever attended a McCrone ass? oos? one that we had, I believe at our I them come in. Again, it was for d spore analysis. McCrone testing or training

	Case 3:	16-md-02738-MAS-RLS Document 9	733-9) [-iled 05/07/19 - Page 10 of 59 Page<u>l</u>D:
1	0	30	0 78	1	You can count them
09:41:48 1	Q.	Okay. Were you consulted by the FDA in ent testing of talc?	09:43:34	2	You can count them.
	A.	No.	09:43:35	3	Q. How many were not funded by MAS?MS. O'DELL: Object to the form.
	Q.	Have you been consulted by any foreign	09:43:42	4	Q. (By Mr. Chachkes) If any?
09:41:55 4		pout testing of talc?	09:43:43	5	A. Not funded by MAS?
09:42:01 6	boules al	MS. O'DELL: Object to the form.	09:43:46	6	Q. Yeah.
09:42:01 7	Q.	(By Mr. Chachkes) Foreign countries?	09:43:47	7	A. None of them were funded by MAS.
09:42:04	д . А.	No.	09:43:49	8	Q. Who were they funded by?
09:42:05	Q.	Has any third-party consulted with you	09:43:51	9	A. Again, most all of them were done as pure
09:42:14 10		e testing of talc that isn't someone who's	09:43:56		research and the well, I guess if you're looking
09:42:17 11	paying y	•	09:44:02		at it as funded by, I don't know what you mean by
09:42:18 12	1-7 37	MS. O'DELL: Object to the form.	09:44:04		funded by MAS. But we essentially when you do a
09:42:21 13		THE WITNESS: Ask the question again.	09:44:09		research study, it's typically not funded by anybody.
09:42:22 14	Q.	(By Mr. Chachkes) Has any third-party	09:44:12		Q. So this is were all your peer-reviewed
09:42:23 15	has anyb	ody asked you at MAS to consult about testing		15	publications done based on work done at MAS?
09:42:26 16	of talc th	at isn't paying you?	09:44:21	16	A. Yes. Well, not all of them. I mean,
09:42:28 17		MS. O'DELL: Object to the form.	09:44:25		there were a lot of them I did at graduate school,
09:42:29 18		THE WITNESS: Not that I know of. You	09:44:27	18	yes.
09:42:31 19	wou	ld have to ask Dr. Longo about that.	09:44:27	19	Q. So other than your graduate school
09:42:33 20	Q.	(By Mr. Chachkes) Is all the talc testing	09:44:29	20	peer-reviewed publications where your are your
09:42:36 21	that you'	ve been involved with been done at the	09:44:33	21	peer-reviewed publications from your work at MAS?
09:42:38 22	request o	of plaintiffs' lawyers who pay you?	09:44:35	22	A. All of them? At this point I'd have to go
09:42:40 23	A.	I have no idea who all of the folks are	09:44:41	23	and look.
09:42:43 24	that hav	e asked us to test talc. You would, again,		24	Q . Okay.
09:42:46 25	have to	ask Dr. Longo.	09:44:41	25	A. I can't recall.
	Atlanta Re	eporters, Inc. 866-344-0459 www.atlanta-reporters.com			Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
		34		_	36
09:42:47	Q.	You just don't know where the money comes	09:44:42	1	Q. For those peer-reviewed works that you
09:42:49 2		You just don't know where the money comes your work?	09:44:42 09:44:45	2	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying
09:42:49 2 09:42:50 3		You just don't know where the money comes your work? MS. O'DELL: Object to the form.		2	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct?
09:42:49 2 09:42:50 3 09:42:51 4	from for	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No.	09:44:45 09:44:49 09:44:53	2 3 4	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form.
09:42:49 2 09:42:50 3 09:42:51 4 09:42:51 5	from for Q.	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No. (By Mr. Chachkes) Have you ever testified	09:44:45 09:44:49 09:44:53 09:44:54	2 3 4 5	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form. THE WITNESS: No, not necessarily. No.
09:42:49 2 09:42:50 3 09:42:51 4 09:42:51 5 09:42:54 6	from for Q.	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No.	09:44:45 09:44:49 09:44:53 09:44:54 09:44:56	2 3 4 5 6	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form. THE WITNESS: No, not necessarily. No. We did work that wasn't funded by others that
09:42:49 2 09:42:50 3 09:42:51 4 09:42:51 5 09:42:54 6 09:42:57 7	Q. in a fede court.	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No. (By Mr. Chachkes) Have you ever testified ral court about testing talc? A federal	09:44:45 09:44:53 09:44:54 09:44:56 09:45:00	2 3 4 5 6 7	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form. THE WITNESS: No, not necessarily. No. We did work that wasn't funded by others that were published.
09:42:49 2 09:42:50 3 09:42:51 4 09:42:51 5 09:42:54 6 09:42:57 7 09:42:57 8	Q. in a fede court. A.	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No. (By Mr. Chachkes) Have you ever testified ral court about testing talc? A federal I don't think so.	09:44:45 09:44:49 09:44:53 09:44:54 09:44:56 09:45:00 09:45:01	2 3 4 5 6 7 8	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form. THE WITNESS: No, not necessarily. No. We did work that wasn't funded by others that were published. Q. (By Mr. Chachkes) So you've done work at
09:42:49 2 09:42:50 3 09:42:51 4 09:42:51 5 09:42:54 6 09:42:57 7 09:42:57 8 09:42:59 9	Q. in a fede court. A. Q.	You just don't know where the money comes your work? MS. O'DELL: Object to the form. THE WITNESS: No. (By Mr. Chachkes) Have you ever testified ral court about testing talc? A federal I don't think so. Has any federal court ever said your work	09:44:45 09:44:53 09:44:54 09:44:56 09:45:00 09:45:01	2 3 4 5 6 7 8 9	Q. For those peer-reviewed works that you published based on work done at MAS, the underlying work at MAS was funded by someone; correct? MS. O'DELL: Object to the form. THE WITNESS: No, not necessarily. No. We did work that wasn't funded by others that were published. Q. (By Mr. Chachkes) So you've done work at MAS that was purely academic, not really funded by
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09:45:38	1	Q. (By Mr. Chachkes) Okay.	09:47:30		lon't keep track of it.
09:45:39	2	A. Off the top of my head, I don't recall.	09:47:32 2		Over 50 percent?
09:45:41	3	Q. But if it were, it would be important to	09:47:34 3		Again, I don't know.
09:45:43	4	disclose that fact?	09:47:35 4		It could be over 50 percent, but you don't
09:45:44	5	A. And it would be disclosed because the	09:47:38 5	know?	
09:45:46	6	publications, the editorial process requires that.	09:47:38 6		MS. O'DELL: Object to the form.
09:45:49	7	Q. And there's no publications in the	09:47:39 7		THE WITNESS: I do not know. It could be
09:45:53	8	peer-reviewed literature regarding testing for	09:47:40		tle as 10 percent. It could be 5 percent.
09:45:57	9	talc testing talc; right?	09:47:43		't know.
09:46:00		MS. O'DELL: Object to the form. Object	09:47:44 10		(By Mr. Chachkes) Could it be 50 percent?
09:46:01		to the form.	09:47:46 11		No, I don't think so.
09:46:02		THE WITNESS: Your question again, I'm	09:47:47 12		2018, what percentage of your time did you
09:46:03	_	sorry?	09:47:50 13	spend wo	rking on talc-related litigation projects?
09:46:03	14	Q. (By Mr. Chachkes) You don't have any	09:47:53 14		Same answer.
09:46:04		peer-reviewed publications regarding the testing of	09:47:54 15	Q.	What's the majority of your time spent on
09:46:06	16	talc; right?	09:47:58 16	at MAS?	
09:46:07	17	A. I don't, no.	09:47:58 17	A.	At the laboratory?
09:46:07	18	Q. What about peer-reviewed publications	09:47:59 18	Q.	Just at MAS generally.
09:46:12	19	regarding the testing of talc in ovarian tissue?	09:48:01 19	A.	Oh, a variety of different things on a
09:46:14	20	MS. O'DELL: Object to the form. Are you	09:48:03 20	daily bas	sis.
09:46:15	21	talking about his publications or in	09:48:04 21	Q.	If you had to pick one thing that you
09:46:18	22	MR. CHACHKES: Of course, yes.	09:48:07 22	spend mo	ost of your time on, what's that?
09:46:20	23	MS. O'DELL: It's not clear on the	09:48:09 23	A.	Most of my time I would say most of my
	24	question.	09:48:18 24	time is s	pent on technological issues surrounding
	25	THE WITNESS: Yeah.	09:48:23 25	analyses	that we do.
		Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com		Atlanta Rep	porters, Inc.866-344-0459 www.atlanta-reporters.com
		38			40
09:46:20	1	38 MS. O'DELL: So would you ask the question	09:48:24 1	Q.	40 Of what?
09:46:20 09:46:21	1 2		09:48:24 1 09:48:25 2		
	_	MS. O'DELL: So would you ask the question		A.	Of what?
09:46:21	2	MS. O'DELL: So would you ask the question again, please.	09:48:25 2	A.	Of what? Of all kinds of materials.
09:46:21 09:46:21	2	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any	09:48:25 2 09:48:27 3	A. Q. time on?	Of what? Of all kinds of materials.
09:46:21 09:46:21 09:46:23	2 3 4 5	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about	09:48:25 2 09:48:27 3 09:48:30 4	A. Q. time on?	Of what? Of all kinds of materials. What material do you spend most of your
09:46:21 09:46:21 09:46:23 09:46:23	2 3 4 5	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about testing ovarian tissue for talc?	09:48:25 2 09:48:27 3 09:48:30 4 09:48:31 5	A. Q. time on?	Of what? Of all kinds of materials. What material do you spend most of your MS. O'DELL: Object to the form.
09:46:21 09:46:21 09:46:23 09:46:23	2 3 4 5 6	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about testing ovarian tissue for talc? A. No.	09:48:25 2 09:48:27 3 09:48:30 4 09:48:31 5 09:48:32 6	A. Q. time on?	Of what? Of all kinds of materials. What material do you spend most of your MS. O'DELL: Object to the form. THE WITNESS: What material did I spend
09:46:21 09:46:23 09:46:23 09:46:26 09:46:27	2 3 4 5 6 7	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about testing ovarian tissue for talc? A. No. Q. Do you have any publications in the	09:48:25 2 09:48:27 3 09:48:30 4 09:48:31 5 09:48:32 6 09:48:33 7	A. Q. time on?	Of what? Of all kinds of materials. What material do you spend most of your MS. O'DELL: Object to the form. THE WITNESS: What material did I spend of my time on?
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09:46:21 09:46:23 09:46:23 09:46:23 09:46:26 09:46:30 09:46:35 09:46:35 09:46:45 09:46:58 09:46:58 09:47:04 09:47:05 09:47:15 09:47:15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about testing ovarian tissue for talc? A. No. Q. Do you have any publications in the peer-reviewed literature about testing ovarian tissue for asbestos? A. No. Q. Do you have any publications actually, skip that. Have you been a coauthor on all of Dr. Longo's reports testing Johnson & Johnson talcum powder products? A. The answer to that is I don't know. A number of them, yes. Q. Okay. Are you aware of any report by Dr. Longo where he issued an expert report in litigation about testing Johnson Baby Powder and didn't have you as a coauthor? A. I don't recall as I sit here.	09:48:25 2 09:48:27 3 09:48:30 4 09:48:31 5 09:48:32 6 09:48:33 7 09:48:34 8 09:48:35 9 09:48:36 10 09:48:37 11 09:48:37 12 13 09:48:40 14 09:48:42 15 09:48:44 16 09:48:48 17 09:48:49 18 09:48:50 19 09:48:50 20 09:48:51 21	A. Q. time on? most Q. A. Q. A. Q. right? A. Q. might have not asbes. Q. whether if A. Q.	Of all kinds of materials. What material do you spend most of your MS. O'DELL: Object to the form. THE WITNESS: What material did I spend of my time on? (By Mr. Chachkes) Correct. That would vary by the week. Okay. Yeah. There are weeks where it's asbestos; There can be some that are, yes. Okay. What's another material that you be spent a majority of your time on that's stos? MS. O'DELL: Object to the form. THE WITNESS: Tissue. (By Mr. Chachkes) Tissue for looking at t contains asbestos? In some cases, yes.
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09:46:21 09:46:23 09:46:23 09:46:23 09:46:26 19:46:30 19:46:35 19:46:35 09:46:45 09:46:45 09:46:58 09:47:04 09:47:05 09:47:11 09:47:15 09:47:17 09:47:24	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MS. O'DELL: So would you ask the question again, please. Q. (By Mr. Chachkes) Do you have any publications in the peer-reviewed literature about testing ovarian tissue for talc? A. No. Q. Do you have any publications in the peer-reviewed literature about testing ovarian tissue for asbestos? A. No. Q. Do you have any publications actually, skip that. Have you been a coauthor on all of Dr. Longo's reports testing Johnson & Johnson talcum powder products? A. The answer to that is I don't know. A number of them, yes. Q. Okay. Are you aware of any report by Dr. Longo where he issued an expert report in litigation about testing Johnson Baby Powder and didn't have you as a coauthor? A. I don't recall as I sit here. Q. 2017, what percentage of your time did you spend working on talc-related litigation projects?	09:48:25 2 09:48:27 3 09:48:30 4 09:48:31 5 09:48:32 6 09:48:33 7 09:48:35 9 09:48:36 10 09:48:37 11 09:48:37 12 13 09:48:40 14 09:48:42 15 09:48:44 16 09:48:48 17 09:48:49 18 09:48:50 19 09:48:50 20 09:48:51 21 09:48:52 22 09:48:53 23	A. Q. time on? most Q. A. Q. A. Q. right? A. Q. might have not asbes. Q. whether in A. Q. solid chur of your time.	Of all kinds of materials. What material do you spend most of your MS. O'DELL: Object to the form. THE WITNESS: What material did I spend of my time on? (By Mr. Chachkes) Correct. That would vary by the week. Okay. Yeah. There are weeks where it's asbestos; There can be some that are, yes. Okay. What's another material that you we spent a majority of your time on that's stos? MS. O'DELL: Object to the form. THE WITNESS: Tissue. (By Mr. Chachkes) Tissue for looking at t contains asbestos? In some cases, yes. Okay. What are I mean, is there a

	-Case 3:16-md-02738-MAS-RLS - Document	9733-9 	Filed 05/07/19 Page 12 of 59 PageID:
		5080	
09:49:04	where you're spending doing some scientific work that	09:50:55 1	Q. (By Mr. Chachkes) Okay. You testified in
09:49:06 2	has nothing to do with talc or asbestos?	09:51:00 2	your first talc case in the Ingham matter in Missouri
09:49:09	A. Yes.	09:51:03	last year?
09:49:09 4	Q. Okay. What would that be?	09:51:04 4	A. Yes.
09:49:11 5	A. Well, once again, technological issues	09:51:05 5	Q. You testified regarding your tissue
09:49:17 6	surrounding things at our laboratory. For instance,	09:51:07 6	analysis?
09:49:19 7	as a chief science officer I get all kinds of	09:51:07 7	A. Yes.
09:49:22	questions about what we're looking at as far as	09:51:08	Q . And you testified at trial about
09:49:27	instrumentation in our laboratory in order to do	09:51:09	extrapolating asbestos content from TEM testing;
09:49:30 10	certain kinds of analyses.	10	correct?
09:49:34 11	We have clients potential clients that	09:51:14 11	A. Yes.
09:49:38 12	call in and they want to do an analysis on maybe a	09:51:14 12	Q. Do you know how much money MAS has made in
09:49:42 13	drug of some kind, something like that.	09:51:19 13	asbestos litigation over the years?
09:49:44 14	So it would be up to me working with	09:51:20 14	A. I have no idea.
09:49:47 15	another scientists there at the laboratory to	09:51:21 15	Q. Do you know how much money MAS has made
09:49:50 16	understand what resources we need to be able to do	-	over for talc litigation over the years?
09:49:52 17	that kind of test, whether we will do that kind of	09:51:26 17	A. No.
09:49:55 18	test.	09:51:26 17	Q. You have no involvement in that aspect
09:49:55 19	Q. Do you bill for your time working for	09:51:26 10	of
09:49:55 19	plaintiffs in talc cases?	09:51:29 10	A. I wouldn't know.
09:50:01 20	A. Yes.	09:51:29 20	
09:50:03 21		09:51:33 21	, , , , , , , , , , , , , , , , , , , ,
	Q. Do you write down the hours?	09:51:37 22	cosmetic talcum powder for asbestos before being engaged by plaintiffs' lawyers for that kind of work?
09:50:05 23	A. I do keep some of the hours, yes.	09:51:40 23	
	Q. Okay. You say some? There's some times		MS. O'DELL: Object to the form.
09:50:12 25	you work for plaintiffs' lawyers and you don't charge	09:51:44 25	THE WITNESS: The answer to that question
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	40		44
1	42	1	44
09:50:14 1	them?	09:51:45	is probably.
09:50:15 2	them? MS. O'DELL: Object to the form.	09:51:47 2	is probably. Q . (By Mr. Chachkes) Why do you say
09:50:15 2 09:50:16 3	them? MS. O'DELL: Object to the form. THE WITNESS: Uh-huh. Yes.	09:51:47 2 09:51:48 3	is probably. Q. (By Mr. Chachkes) Why do you say probably?
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09:50:15 2 09:50:16 3 09:50:17 4 09:50:18 5 09:50:19 6 09:50:21 7 09:50:21 8 09:50:21 9 09:50:23 10 09:50:25 11 09:50:26 12 09:50:26 12 09:50:36 16 09:50:36 16 09:50:36 18 09:50:36 18 09:50:44 19 09:50:44 19 09:50:44 20 09:50:49 21 09:50:51 22 09:50:51 23	MS. O'DELL: Object to the form. THE WITNESS: Uh-huh. Yes. Q. (By Mr. Chachkes) Why? A. Because it just happens. Q. But for the most part you bill for your time? A. Yes. Q. And A. I don't bill for it. MAS bills for it. Yes. Q. Can you estimate how much time you spent working on the MDL projects? A. No. I think we already talked about that earlier. Q. Okay. A. Yep. Q. Do you have any estimate as to what percentage of your time recently has been for litigation-related projects? A. No. Q. Could it be 50 percent?	09:51:47 2 09:51:48 3 09:51:48 4 09:51:54 5 09:51:58 6 09:52:09 7 09:52:19 10 09:52:21 11 09:52:22 11 09:52:26 12 09:52:27 13 09:52:29 14 09:52:30 15 09:52:30 16 09:52:32 17 09:52:32 17 09:52:33 18 09:52:37 19 09:52:38 20 09:52:39 21 09:52:40 22 09:52:44 23	is probably. Q. (By Mr. Chachkes) Why do you say probably? A. Because of the work that has been done over the years. We did quite a bit of testing in the past, I believe, on talc that was used in industrial applications; but also the suppliers use the same kind of talc in, for instance, cosmetics and drug applications. Q. So it's your testimony that talc manufacturers use the same exact talc for industrial purposes and cosmetic purposes? A. No, that's not my testimony. MS. O'DELL: Object to form. Q. (By Mr. Chachkes) Did MAS ever I'm going to focus on the word cosmetic here. A. Okay. Q. Did MAS ever test cosmetic talcum powder for asbestos prior to being engaged to do that work for plaintiffs' lawyers? MS. O'DELL: Object to the form. THE WITNESS: The answer to that again, as I said before, is probably.
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	Case 3:16-md-02738-MAS-RLS Document 9	733-9 T	F iled 05/07/19 Page 13 of 59 Pagel<u>D</u>:
	330)81 	47
09:52:53	powder? What cosmetic talcum powder do you think	09:55:12	in the world to analyze talc for asbestos?
09:52:58 2	that was?	09:55:15 2	MS. O'DELL: Object to the form.
09:52:58	A. I don't know. I do know, again, that a	09:55:16	THE WITNESS: I like the way you put that.
09:53:00 4	number of different types of talcum powders were	09:55:19 4	Do like that.
09:53:03 5	tested at MAS prior to this litigation.	09:55:22 5	I would say that, yes, we're one of the
09:53:04 6	Q. Well, you cited some industrial talcum	09:55:26	best in the world, yes.
09:53:14 7	powder	09:55:26 7	Q. (By Mr. Chachkes) Can you name some
09:53:14	A. Yes. Well, I just used a	09:55:28	others that are in your league?
9	THE REPORTER: Wait. One at a time.	09:55:30	MS. O'DELL: Object to the form.
09:53:14 10	THE WITNESS: Sorry. Ask the question	09:55:31 10	THE WITNESS: Well, that again calls for a
09:53:16 11	again.	09:55:35 11	judgment on these other laboratories. So, you
09:53:16 12	Q . (By Mr. Chachkes) Okay. You have no	09:55:42 12	know, I respect the other laboratories that are
09:53:18 13	specific memory of testing any cosmetic talcum powder	09:55:44 13	doing this work. But as far as best in the
09:53:22 14	prior to being engaged by plaintiff lawyers to do	09:55:48 14	world, I would put MAS right there.
09:53:27 15	this?	09:55:50 15	Q . (By Mr. Chachkes) Okay. The question was
09:53:27 16	MS. O'DELL: Object to the form.	09:55:51 16	what other laboratories are up there?
09:53:28 17	THE WITNESS: Again, now you've asked the	09:55:53 17	A. I think Jim Millette's lab was is
09:53:32 18	question differently than before. The answer	09:56:00 18	definitely up there.
09:53:36 19	again is, as I said, MAS has been involved in	09:56:02 19	Q. What about McCrone?
09:53:40 20	testing talcum powders in the past prior to this	09:56:03 20	A. Yes.
09:53:44 21	litigation, and some of them most probably were	09:56:04 21	Q. Are there academic laboratories that can
09:53:49 22	cosmetic types, too.	09:56:09 22	analyze for asbestos in talc at the level you do?
09:53:50 23	Q . (By Mr. Chachkes) When you say most	09:56:13 23	A. Academic laboratories?
09:53:52 24	probably, did you have a personal involvement in	09:56:14 24	Q . Yes.
09:53:53 25	those testings?	09:56:15 25	A. With the quality control we have? I can't
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
20.50.54 1	46	20.50.20 1	think of any
09:53:54 1	A. Being at the laboratory and seeing samples	09:56:20 1	think of any.
09:54:01 2	A. Being at the laboratory and seeing samples that have come in and had come in over that period of	09:56:21 2	think of any. Q. Okay. You do better analysis of
09:54:01 2 09:54:05 3	A. Being at the laboratory and seeing samples that have come in and had come in over that period of time, again, the answer to that is probably.	09:56:21 2 09:56:23 3	think of any. Q. Okay. You do better analysis of asbestos of talc for asbestos than academic
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09:54:01 2 09:54:05 3 09:54:09 4 09:54:11 5 09:54:14 6 09:54:17 7 09:54:20 8 09:54:22 9 09:54:26 10 09:54:29 11 09:54:31 12 13 09:54:31 14 09:54:36 15 09:54:39 16 09:54:41 17	A. Being at the laboratory and seeing samples that have come in and had come in over that period of time, again, the answer to that is probably. Q. Okay. So but what about personally involved in the experimentation on talc prior to being engaged by plaintiff lawyers, were you personally involved in any such investigations? A. The answer to that is probably also. Q. Okay. So you've run TEM on talcum powder at MAS prior to being engaged by A. Well, when you say MS. O'DELL: Object to the form. THE WITNESS: personally involved, again, part of the work that I have done in the past as a laboratory manager would be to be at the location where the analyst is analyzing that talc or that product and looking over their	09:56:21 2 09:56:23 3 09:56:26 4 09:56:29 5 09:56:30 6 09:56:32 7 09:56:32 8 09:56:35 9 09:56:36 10 09:56:37 11 09:56:44 12 09:56:44 13 09:56:49 14 09:56:50 15	think of any. Q. Okay. You do better analysis of asbestos of talc for asbestos than academic laboratories that focus on mineralogy exclusively? MS. O'DELL: Object to the form. THE WITNESS: When it comes to quality control, yes. Q. (By Mr. Chachkes) What about in terms of accurate results? A. Same. Same answer. Q. Are MAS's analyses of talc for asbestos reproducible by other labs? MS. O'DELL: Object to the form. THE WITNESS: Again, I don't know how to answer that. But they should be if they use the same technologies and techniques. Q. (By Mr. Chachkes) Even though their
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09:54:01 2 09:54:05 3 09:54:09 4 09:54:11 5 09:54:14 6 09:54:17 7 09:54:20 8 09:54:22 9 09:54:26 10 09:54:29 11 09:54:31 12 13 09:54:31 14 09:54:36 15 09:54:39 16 09:54:41 17 09:54:45 18 09:54:45 18 09:54:45 20 09:54:50 20 09:55:00 22 09:55:03 23	A. Being at the laboratory and seeing samples that have come in and had come in over that period of time, again, the answer to that is probably. Q. Okay. So but what about personally involved in the experimentation on talc prior to being engaged by plaintiff lawyers, were you personally involved in any such investigations? A. The answer to that is probably also. Q. Okay. So you've run TEM on talcum powder at MAS prior to being engaged by A. Well, when you say MS. O'DELL: Object to the form. THE WITNESS: personally involved, again, part of the work that I have done in the past as a laboratory manager would be to be at the location where the analyst is analyzing that talc or that product and looking over their shoulder and seeing what they're doing. So that would be the personal involvement right there. Q. (By Mr. Chachkes) Okay. Can you name any cosmetic talcum powder that MAS looked at prior to being engaged at engaged by plaintiff lawyers to do that, to look at cosmetic talcum powder?	09:56:21 2 09:56:23 3 09:56:26 4 09:56:29 5 09:56:30 6 09:56:32 8 09:56:32 8 09:56:35 9 09:56:36 10 09:56:37 11 09:56:44 12 09:56:44 13 09:56:49 14 09:56:50 15 09:56:54 16 09:56:57 17 09:56:58 18 09:57:01 19 09:57:02 20 09:57:03 21 09:57:04 22 09:57:04 23	 Q. Okay. You do better analysis of asbestos of talc for asbestos than academic laboratories that focus on mineralogy exclusively? MS. O'DELL: Object to the form. THE WITNESS: When it comes to quality control, yes. Q. (By Mr. Chachkes) What about in terms of accurate results? A. Same. Same answer. Q. Are MAS's analyses of talc for asbestos reproducible by other labs? MS. O'DELL: Object to the form. THE WITNESS: Again, I don't know how to answer that. But they should be if they use the same technologies and techniques. Q. (By Mr. Chachkes) Even though their quality controls aren't up to your standards? MS. O'DELL: Object to the form. THE WITNESS: Oh, well, in that case the answer is I couldn't tell you. Q. (By Mr. Chachkes) Okay. So there's no

	Case 3:	16-md-02738-MAS-RLS Document 9	/33-9	- 1 (ed 05/07/19 Page 14 of 59 PageID:
4		350	182	4	۷.
09:57:14 1	not	MS. O'DELL: Object to the form. That's	09:59:11	1 2 ~	Q. (By Mr. Chachkes) All right. So let me
09:57:15 2		his question.			sk the same question again.
09:57:17 3	Q.	(By Mr. Chachkes) It's a question.		3	Are there any nationally or
09:57:18 4	Α.	Ask it a different way.	09:59:13		ternationally renowned TEM scientists that have
09:57:20 5	Q.	No.			entified MAS as one of the best labs in the world
09:57:21 6		Can you reread the question, please.			or testing talc?
09:57:31		(The record was read by the reporter.)		7	MS. O'DELL: Object to the form.
09:57:32		MS. O'DELL: Object to the form.		8	THE WITNESS: Well, let me answer it.
09:57:33		THE WITNESS: Well, if they again, if		9	There haven't been any that haven't said we're
09:57:34 10		use the same techniques, they should be	09:59:23		not the best either, okay?
09:57:38 11		to, sure.	09:59:25		Q. (By Mr. Chachkes) Have any nationally or
09:57:39 12	Q.	(By Mr. Chachkes) Okay. So anyone	09:59:28 1		ternationally renowned PLM scientists identified
09:57:46 13		g the ISO 22262 protocol should be able to	09:59:31		AS as one of the best labs strike that.
09:57:50 14	reprodu	ce your results?	09:59:35		Have you ever presented at any conferences
09:57:51 15		MS. O'DELL: Object to the form.	09:59:37		bout testing talc with TEM?
09:57:53 16	_	THE WITNESS: If they're following the	09:59:40 1		A. No.
09:57:54 17		cocol, it's most likely that they could, yes.	09:59:40		Q. Have you ever presented any conferences
09:57:56 18	Q.	(By Mr. Chachkes) Okay. Has MAS received	09:59:42 1		bout testing talc with PLM?
09:58:01 19	-	plades from any academic institutions for its	09:59:44 1		A. No.
09:58:07 20	testing o		09:59:44		Q. Have you ever presented have you ever
09:58:07 21	A.	Academic institutions?	09:59:50 2		een invited to any conferences on the subject matter
09:58:09 22	Q.	Yes.	09:59:53		f testing talc?
09:58:09 23	A.	I have no idea.	09:59:55 2		A. I can't recall any invitations.
09:58:11 24	Q.	Has any renowned nationally or	09:59:57	24	Q. When did you personally first learn about
09:58:15 25	internat	onally renowned TEM scientist identified MAS	10:00:01 2	. 5 th	ne ISO 22262-2 TEM method?
	Atlanta R	eporters, Inc.866-344-0459 www.atlanta-reporters.com		At	tlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com
		50			52
09:58:19 1	as one o	f the best labs in the world for testing	10:00:05	1	A. Oh, I don't know, a couple of years ago.
09:58:22 2	talc?		10:00:08	2	Q. From whom did you learn it?
09:58:23 3		MS. O'DELL: Object to the form.	10:00:09	3	A. I can't recall.
09:58:24 4		THE WITNESS: Well, I think if you want to	10:00:14	4	Q. When was the first time that anyone at MAS
09:58:25 5	talk	about good laboratories in that kind of	10:00:21	5 te	ested a talc sample using the ISO 22262 method?
09:58:27 6	test	ing, you would definitely look to NIST NVLAP	10:00:25	6	A. It probably was a couple of years ago, I
09:58:33 7	as t	he national standard for TEM laboratories	10:00:28	7 w	ould think.
09:58:36	and	testing. So, you know, they would you	10:00:29	8	Q. Sometime in 2017?
09:58:44 9	kno	w, based on their assessments, their audits	10:00:30	9	MS. O'DELL: Object to form.
09:58:47 10	of o	ur laboratory, then I would say yes.	10:00:31 1	0	THE WITNESS: Again, I don't know an exact
09:58:49 11	Q.	(By Mr. Chachkes) Okay. So NIST and	10:00:32 1	1	date for that.
09:58:51 12	NVLAP h	ave told MAS that you're one of the best labs	10:00:33 1	2	Q. (By Mr. Chachkes) Could it have been in
09:58:55 13	in the w	orld for testing talc?	10:00:34 1	3 20	016?
09:58:57 14		MS. O'DELL: Object to the form.	10:00:34 1		A. I don't know. We have been using it for
09:58:58 15		THE WITNESS: No, they don't say things	10:00:36 1	5 q	uite a while. So as far as the exact date, I don't
		that.	10:00:40 1	6 k	now.
09:58:59 16	like				
09:58:59 16 09:58:59 17	like Q .	(By Mr. Chachkes) Okay. They just	10:00:40 1	7	Q. Could it have be in 2015?
09:58:59 17 09:59:00 18		(By Mr. Chachkes) Okay. They just you?	10:00:40 1		Q. Could it have be in 2015?MS. O'DELL: Object to the form.
09:58:59 17 09:59:00 18 09:59:00 19	Q.	(By Mr. Chachkes) Okay. They just	10:00:42 1	8 9	
09:58:59 17 09:59:00 18	Q . accredit	(By Mr. Chachkes) Okay. They just you?	10:00:42 1	8 9	MS. O'DELL: Object to the form.
09:58:59 17 09:59:00 18 09:59:00 19	Q. accredit A. Q.	(By Mr. Chachkes) Okay. They just you? Yeah, of course. Yeah.	10:00:42 1 10:00:43 1 10:00:44 2 10:00:46 2	8 9 9 0	MS. O'DELL: Object to the form. THE WITNESS: I don't know.
09:58:59 17 09:59:00 18 09:59:00 19 09:59:02 20	Q. accredit A. Q. accredit	(By Mr. Chachkes) Okay. They just you? Yeah, of course. Yeah. They didn't give you some super	10:00:42 1 10:00:43 1 10:00:44 2	8 9 9 0	MS. O'DELL: Object to the form. THE WITNESS: I don't know. Q. (By Mr. Chachkes) You're the lab manager;
09:58:59 17 09:59:00 18 09:59:00 19 09:59:02 20 09:59:04 21 09:59:07 22 09:59:08 23	Q. accredit A. Q. accredit	(By Mr. Chachkes) Okay. They just you? Yeah, of course. Yeah. They didn't give you some super ation that only you get or you're above and	10:00:42 1 10:00:43 1 10:00:44 2 10:00:46 2	8 9 0 1 rid 2	MS. O'DELL: Object to the form. THE WITNESS: I don't know. Q. (By Mr. Chachkes) You're the lab manager; ght? You were
09:58:59 17 09:59:00 18 09:59:00 19 09:59:02 20 09:59:04 21 09:59:07 22 09:59:08 23 09:59:08 24	Q. accredit A. Q. accredit beyond	(By Mr. Chachkes) Okay. They just you? Yeah, of course. Yeah. They didn't give you some super ation that only you get or you're above and other laboratories; correct?	10:00:42	8 9 0 11 rid 2 2 3 44 te	MS. O'DELL: Object to the form. THE WITNESS: I don't know. Q. (By Mr. Chachkes) You're the lab manager; ght? You were A. I was for a time, yes.
09:58:59 17 09:59:00 18 09:59:00 19 09:59:02 20 09:59:04 21 09:59:07 22 09:59:08 23	Q. accredit A. Q. accredit beyond	(By Mr. Chachkes) Okay. They just you? Yeah, of course. Yeah. They didn't give you some super ation that only you get or you're above and other laboratories; correct? No	10:00:42	8 9 0 11 rid 2 2 3 44 te	MS. O'DELL: Object to the form. THE WITNESS: I don't know. Q. (By Mr. Chachkes) You're the lab manager; ght? You were A. I was for a time, yes. Q. Okay. Would you be aware of any ISO 22262

	Case 3.	16-md-02738-MAS-RLS Document 9	733-9	Filed 05/07/19 Page 15 of 59 PageID:
4	•	350	183	
10:00:56	Q.	Could the first test have been in 2018?	10:03:04	they will set the microscope up for the EDX process,
10:01:00 2	A.	Again, I don't know. It's been at least,	10:03:10 2	and that involves setting some lenses and condensers
10:01:04 3		know, two or three years at least.	10:03:14 3	in there so that you can focus the beam on the
10:01:06 4	Q	Okay. Did your analyst use ISO 22262 on	10:03:17 4	particle.
10:01:13 5	•	samples prior to the testing reported on in	10:03:17 5	Then the beam is focused. The
10:01:16 6	this repo		10:03:20 6	spectrometer is put into place in the microscope.
10:01:17 7		MS. O'DELL: Object to the form.	10:03:24	Then you, of course, begin the process of collecting
10:01:18	_	THE WITNESS: I don't know.	10:03:29	x-rays from the specimen.
10:01:19 9	Q.	(By Mr. Chachkes) Your report includes	10:03:31 9	Q. And then you get an EDXA spectrum?
10:01:27 10	•	ectra for several particles; correct?	10:03:35 10	A. Yes.
10:01:29 11	A.	The reports do, yes.	10:03:36 11	Q. Let's look at an example spectrum so you
10:01:30 12	Q.	Yeah. What is EDXA?	10:03:39 12	could tell me about it. There's probably one that's
10:01:35 13	A.	Energy dispersive spectroscopy x-ray	10:03:42 13	already been marked.
10:01:38 14	energy	dispersive spectroscopy.	10:03:52 14	I'm going to present to you with what was
10:01:38 15	Q.	Can you identify a particle of asbestos	10:03:54 15	marked yesterday as Longo Number 12. Do you see
10:01:39 16	using ED	XA alone?	10:03:57 16	that?
10:01:42 17	A.	You mean a fiber, that type of thing, a	10:03:57 17	A. Yes.
10:01:45 18	bundle,	fiber bundle? You're just saying particle,	10:03:58 18	Q. And that's an EDXA spectra from your
19	so		10:04:03 19	expert report; correct?
20	Q.	Okay.	10:04:05 20	MS. O'DELL: Object to the form.
10:01:50 21	A.	Yeah, I'm just trying to be specific.	10:04:07 21	THE WITNESS: If it's from our report,
10:01:52 22	Q.	So was the answer different to my question	10:04:09 22	yes.
10:01:54 23	whether	I used the word particle or a fiber or	10:04:09 23	Q. (By Mr. Chachkes) Okay. It is from your
10:01:56 24	bundle?		10:04:11 24	report. So is that what an EDXA spectra looks like?
10:01:57 25	A.	No.	10:04:20 25	A. Yes.
	Atlanta Re	eporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
		54		56
10:02:00 1	Q.	Okay. So let me ask again.	10:04:21 1	56 Q. And you'll notice on the bottom left-hand
10:02:00 1 2	Q. A.		10:04:21 1 10:04:26 2	
10.02.00		Okay. So let me ask again.	_	Q. And you'll notice on the bottom left-hand
2	A.	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by	10:04:26 2	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements
10:02:02 3	A. Q.	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by	10:04:26 2 10:04:28 3	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total?
10:02:02 3 10:02:04 4	A. Q. EDXA ald	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one?	10:04:26 2 10:04:28 3 10:04:29 4	 Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes.
10:02:02 3 10:02:04 4 10:02:06 5	A. Q. EDXA ald A.	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no.	10:04:26 2 10:04:28 3 10:04:29 4 10:04:29 5	 Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information
10:02:04 4 10:02:06 5 10:02:10 6	A. Q. EDXA ald A. Q. A.	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not?	10:04:26 2 10:04:28 3 10:04:29 4 10:04:29 5 10:04:31 6	 Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct?
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7	A. Q. EDXA ald A. Q. A.	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of	10:04:26 2 10:04:28 3 10:04:29 4 10:04:29 5 10:04:31 6 10:04:32 7	 Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes.
10:02:04	A. Q. EDXA ald A. Q. A. would b	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you
10:02:04	A. Q. EDXA ald A. Q. A. would b	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o.	10:04:26	 Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software?
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10	A. Q. EDXA ald A. Q. A. would b	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do.
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from g EDXA alone?	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you
2 10:02:04 4 10:02:04 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:24 12	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from g EDXA alone? No. You need other methodologies, and	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on
2 10:02:04 4 10:02:04 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:24 11 10:02:24 12 10:02:29 13	A. Q. EDXA ald A. Q. A. would b fiber too Q. talc using A. that's w	Okay. So let me ask again. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and that we use. We use a suite of methodologies.	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12?
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:24 12 10:02:29 13 10:02:32 14	A. Q. EDXA ald A. Q. A. would b fiber too Q. talc using A. that's w	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from g EDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form.
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:22 12 10:02:23 13 10:02:33 14 10:02:39 15	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming	Okay. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and that we use. We use a suite of methodologies. Can you distinguish anthophyllite from general control of the chemistry of another type of o.	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any
2 10:02:04 4 10:02:04 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:24 11 10:02:29 13 10:02:39 15 10:02:41 16	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. Q.	Okay. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from get on you distinguish anthophyllite from you distinguish anthophyllite fr	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:22 12 10:02:23 13 10:02:32 14 10:02:33 15 10:02:43 17	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. Q.	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from g EDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from ground is tinguish anthophyllite from grou	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:22 12 10:02:23 14 10:02:33 15 10:02:41 16 10:02:41 17 10:02:40 18	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. Q.	Okay. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and that we use. We use a suite of methodologies. Can you distinguish anthophyllite from general distinguish anth	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a
2 10:02:04 4 10:02:04 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:24 12 10:02:29 13 10:02:39 15 10:02:41 16 10:02:41 17 10:02:50 18 10:02:50 18	A. Q. EDXA ald A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. q. the steps	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from getonite with EDXA alone? The answer to that is no. So for the EDXA process, walk me through that do you do? Where do you want to start on that?	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a particular asbestos type.
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:22 11 10:02:24 12 10:02:23 13 10:02:32 14 10:02:33 15 10:02:41 16 10:02:43 17 10:02:50 18 10:02:55 20	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. cumming A. the steps A. Q.	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from g EDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from gronite with EDXA alone? The answer to that is no. So for the EDXA process, walk me through the do you do? Where do you want to start on that? Well, you've got a particle?	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a particular asbestos type. For instance, this is tremolite. You can
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:10 6 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:22 12 10:02:23 14 10:02:33 15 10:02:41 16 10:02:43 17 10:02:50 18 10:02:55 20 10:02:56 21	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. Q. the steps A. Q.	Okay. Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and that we use. We use a suite of methodologies. Can you distinguish anthophyllite from gentle with EDXA alone? The answer to that is no. So for the EDXA process, walk me through that do you do? Where do you want to start on that? Well, you've got a particle? Okay.	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a particular asbestos type. For instance, this is tremolite. You can turn the the data's there, so you can turn
2 10:02:04 4 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:24 11 10:02:24 12 10:02:29 13 10:02:39 15 10:02:41 16 10:02:41 17 10:02:50 18 10:02:52 19 10:02:55 20 10:02:57 22	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. cumming A. cumming A. cumming A. Q. the steps	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from geometry of another type of o. The answer to that is no. So for the EDXA alone? The answer to that is no. So for the EDXA process, walk me through of the theory of the the	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a particular asbestos type. For instance, this is tremolite. You can turn the the data's there, so you can turn that data on to show you what the oxides are for
2 10:02:02 3 10:02:04 4 10:02:06 5 10:02:11 7 10:02:14 8 10:02:17 9 10:02:18 10 10:02:21 11 10:02:22 12 10:02:29 13 10:02:39 15 10:02:41 16 10:02:43 17 10:02:50 18 10:02:55 20 10:02:56 21 10:02:57 22 10:03:01 23	A. Q. EDXA alc A. Q. A. would b fiber too Q. talc using A. that's w Q. cumming A. cumming A. cumming A. cumming A. A. Q. the steps A. Q. A.	Okay. Can you identify a particle of asbestos by one? Yes. Well, no, not by just EDXA, no. Okay. Why not? Well, they have the chemistry, and they e similar to the chemistry of another type of o. Can you distinguish anthophyllite from gEDXA alone? No. You need other methodologies, and hat we use. We use a suite of methodologies. Can you distinguish anthophyllite from general distinguish anthophyllite from	10:04:26	Q. And you'll notice on the bottom left-hand corner it says elements and it has got some elements and it says total? A. Yes. Q. Your software can generate information that fills in that; correct? A. Yes. Q. Why don't you turn that why don't you use it, that software? A. We do. Q. Okay. Why in these experiments did you not put in the information that can be generated on the bottom left-hand side of Exhibit 12? MS. O'DELL: Object to the form. THE WITNESS: Well, there could be any number of reasons for that. Typically, when we're looking at these types of particles, they have characteristic spectra for the if it's a particular asbestos type. For instance, this is tremolite. You can turn the the data's there, so you can turn that data on to show you what the oxides are for the oxides.

	Case 3:	16-md-02738-MAS-RLS Document 9	733- 9) 	iled 05	/07/19 Page 16 of 59 PageID:
10:05:22 1	were the	analysts actually instructed not to turn it	10:07:08	1	Maybe in	est flip it up to the last page.
10:05:22		analysis actually instructed not to turn it	10:07:08	2		
10:05:25 2	on?	No ikla nak a painaidanaa		_	Α.	Okay.
10:05:25	Α.	No, it's not a coincidence.	10:07:10	3	Q.	You see there, it's an EDXA printout.
10:05:27	Q.	Okay. They were instructed to not	10:07:15	4	This is no	
10:05:28 5	generate	e that data?		5	A.	Sure.
10:05:29 6	A.	No. No, no, no. No.	10:07:15	6	Q.	This is from Connecticut.
10:05:31 7	Q.	Now, is it standard operating practice not	10:07:17	7	A.	Uh-huh.
10:05:36	to gener	ate that data?	10:07:17	8	Q.	And you see that it looks like it was
10:05:37	A.	Is it standard operating practice	10:07:18	9	generate	d from the same software as yours, it's the
10:05:39 10	Q.	at MAS not to generate that data?	10:07:21	10	same for	its, same format. Is that a reasonable
10:05:41 11	A.	They don't have to generate it. It's not	10:07:24	11	conclusio	n?
10:05:43 12	require	d.	10:07:25	12	Α.	I don't know
13	Q.	Okay.	10:07:26	13		MS. O'DELL: Object to the form.
10:05:43 14	Α.	It's not required by the method.	10:07:27	14		THE WITNESS: we'd have to see. You
10:05:45	Q.	Is that data in the software, you just	10:07:29		knov	v, they're all there are a number of
10:05:51 16		not to print it out?	10:07:31			rent EDS software packages out there.
10:05:53	CH003C 1	MS. O'DELL: Object to the form.	10:07:31	_	Q <u>.</u>	(By Mr. Chachkes) Do you know the name of
10:05:53		THE WITNESS: I would have to check on	10:07:34			S software package?
_	Lla a L				_	
10:05:55 19		to see. So that's my answer to that right	10:07:38	_	Α.	I want to say it's called Revolutions.
10:05:59 20	now		10:07:40		Q.	Are there different versions of the
10:05:59 21	Q.	(By Mr. Chachkes) Okay.	10:07:42		Revolution	on software?
10:06:00 22	A.	Yeah.	10:07:43		Α.	I don't know.
10:06:00 23	Q.	And is that data you wouldn't	10:07:44	23	Q.	And the information in the lower left, you
10:06:04 24	deliberat	ely delete that data; right?	10:07:48	24	see that'	s generated for each of the relevant
10:06:06 25	A.	No, never.	10:07:52	25	elements	s, weight percentage, standard deviation,
	Atlanta R	eporters, Inc.866-344-0459 www.atlanta-reporters.com			Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com
		58				60
10:06:07 1	0					
	Q.	Is that data still at MAS, that if I asked	10:07:55	1	atomic p	ercentage, oxide percentage, other
10:06:10 2	•	edo these with the data printed out, could	10:07:55 10:07:56	1 2		ercentage, oxide percentage, other ion; do you see that?
10:06:10 2 10:06:12 3	•	edo these with the data printed out, could		_		
_	you to re	edo these with the data printed out, could	10:07:56	2	informati	on; do you see that?
10:06:12	you to re you do it A .	edo these with the data printed out, could ?? I don't know. We would have to ask Bill	10:07:56 10:07:57	3	informati A. Q.	on; do you see that? Yes.
10:06:12 3 10:06:13 4 10:06:16 5	you to re you do it A .	edo these with the data printed out, could ?? I don't know. We would have to ask Bill f it, in fact, is. It depends on the	10:07:56 10:07:57 10:07:58 10:08:00	2 3 4	informati A. Q.	on; do you see that? Yes. Can you generate all that information if ted to for your EDXA?
10:06:12 3 10:06:13 4 10:06:16 5 10:06:21 6	you to re you do it A. to see it	edo these with the data printed out, could ?? I don't know. We would have to ask Bill f it, in fact, is. It depends on the e.	10:07:56 10:07:57 10:07:58 10:08:00 10:08:04	2 3 4 5 6	informati A. Q.	on; do you see that? Yes. Can you generate all that information if ted to for your EDXA? MS. O'DELL: Object to the form.
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10:06:12	you to re you do it A. to see if softwar Q. A. be p requ avai the Q. A. a charae say, we method to, you Q. there.	I don't know. We would have to ask Bill it, in fact, is. It depends on the e. Okay. Yeah. MR. CHACHKES: We would request that data produced. So if we'll make a formal plest for that. MS. O'DELL: I think the data that's lable has been produced, it's provided in report, and so there's no further data. (By Mr. Chachkes) We'll Well, this is adequate to tell if this is cteristic spectrum of tremolite, but you can't ll, we know this is tremolite. We have other is that have to be coupled together to be able know, 99.9 percent say it is. I'm just talking about the data down	10:07:56 10:07:57 10:07:58 10:08:00 10:08:04 10:08:06 10:08:07 10:08:11 10:08:12 10:08:15 10:08:18 10:08:21 10:08:23 10:08:24 10:08:24 10:08:27 10:08:31 10:08:31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	information A. Q. you want the stock static Q. experiment report, we information Q. understathat usef	Yes. Can you generate all that information if ted to for your EDXA? MS. O'DELL: Object to the form. THE WITNESS: Again, it depends on the way software operates, if it's set up to be able oblect that information and make those stics. (By Mr. Chachkes) For the EDXA ents that you ran for the purposes of the MDL would you be able to generate that son or you just don't know? MS. O'DELL: Object to form. THE WITNESS: I don't know. (By Mr. Chachkes) Okay. Do you and that that information, some people find ful? MS. O'DELL: Objection. THE WITNESS: It can be, yeah. (By Mr. Chachkes) Why?
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10:06:12	you to re you do it A. to see it softwar Q. A. be requ avai the Q. A. a charac say, we method to, you Q. there. A. Q. Exhibit 1	I don't know. We would have to ask Bill it, in fact, is. It depends on the e. Okay. Yeah. MR. CHACHKES: We would request that data produced. So if we'll make a formal lest for that. MS. O'DELL: I think the data that's lable has been produced, it's provided in report, and so there's no further data. (By Mr. Chachkes) We'll Well, this is adequate to tell if this is exteristic spectrum of tremolite, but you can't ll, we know this is tremolite. We have other s that have to be coupled together to be able know, 99.9 percent say it is. I'm just talking about the data down Okay.	10:07:56 10:07:57 10:07:58 10:08:00 10:08:04 10:08:06 10:08:07 10:08:11 10:08:12 10:08:15 10:08:24 10:08:24 10:08:24 10:08:31 10:08:31 10:08:31 10:08:33 10:08:33	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	information A. Q. you want the stoccurrence static Q. experime report, w information Q. understathat usef Q. A. if you're determin	Yes. Can you generate all that information if ted to for your EDXA? MS. O'DELL: Object to the form. THE WITNESS: Again, it depends on the way software operates, if it's set up to be able oblect that information and make those stics. (By Mr. Chachkes) For the EDXA ents that you ran for the purposes of the MDL rould you be able to generate that on or you just don't know? MS. O'DELL: Object to form. THE WITNESS: I don't know. (By Mr. Chachkes) Okay. Do you and that that information, some people find ful? MS. O'DELL: Objection. THE WITNESS: It can be, yeah. (By Mr. Chachkes) Why? Well, it can be useful in for instance, as a research geologist and you're trying to

		Case 3.	:16-ma-02/38-MAS-RLS		/ 33-9	 	i cu us i	07/19 Page 17 of 59 PageID: 63
10:08:43	1	unknow	n, that would be very helpfu	ւ ⁶¹ 350	10:10:59	1	peak heic	hts or peak areas can be used to determine
10:08:44	2	Q.	Okay. Why is it very helpful?		10:11:02		_	ical composition of the subject of an EDXA
10:08:46	3	A.	Again, if they are if they's	e trying to	10:11:04		analysis?	
10:08:49	4		and the composition of these		10:11:05	4	A.	Well
10:08:52	5		ormation is part of info to try		10:11:05	5	Α.	MS. O'DELL: Object.
10:09:00	6		ou're working with.	to rigare out	10:11:06	6		THE WITNESS: if we step back a minute,
	7	Q.	That information that we're tal	king about	10:11:12	7	these	e kinds of spectra are not the kinds of
10:09:01	8	•	cher can use to estimate the con	_	10:11:12	8		tra that we get when we're doing something
10:09:05	9		I composition, of the subject par	' '		9		mass spectrometer where we're really
10:09:11		CHEITICA		ticle, right:	10:11:17			
10:09:14			MS. O'DELL: Object to form.	octimate it				ng at an area under a peak. You can do
10:09:14		T l	THE WITNESS: Yeah, they car	i estimate it.	10:11:24			heights on those, half width max types of
10:09:15		ine	y can estimate it.		10:11:29		estin	nates with those.
10:09:16			MS. O'DELL: Dr. Rigler, give n	ne just a	10:11:31			These are spectrometers, and what they do
10:09:19		seco	ond before you answer.		10:11:33			ey collect data in electron channels for
10:09:20			THE WITNESS: Sure. Sorry.		10:11:37			ron voltage. So typically what you do is
10:09:20			MS. O'DELL: Thank you.		10:11:41		•	bombard your specimen with the electron beam
10:09:20		Q.	(By Mr. Chachkes) And one of		10:11:46			period of time to get enough counts so
10:09:23		do that i	s by you take the ratios of the	e peak	10:11:50			the peaks are stable at a stable height,
10:09:29	19	areas of	the metals to the silicon; right?		10:11:54		and t	then you can compare the peak heights.
10:09:32	20	A.	That's one way to do it.		10:11:57	20		So peak area, you know, for this kind of a
10:09:33	21	Q.	And if you were going to gener	ate peak	10:12:02	21	spec	trometer, again, you'll get different
10:09:40	22	areas fo	r your EDXA you could do that; r	ight?	10:12:04	22	opini	ons, but it's not the same type of thing
10:09:43	23	A.	Yeah. I would say yes to th	at. Again, I	10:12:07	23	with	the mass spectrometer. So peak heights
10:09:46	24	would h	nave to look at the package to	see what's in	10:12:09	24	work	very well for these.
10:09:49	25	there.			10:12:11	25	Q.	(By Mr. Chachkes) Okay. It's not a
		Atlanta R	eporters, Inc.866-344-0459 www.atl	anta-reporters.com		,	Atlanta Re	porters, Inc.866-344-0459 www.atlanta-reporters.com
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				62				64
10:09:49	1	Q.	It's pretty fundamental. I wou	_	10:12:12	1 (question	64 about what works very well or
10:09:49 10:09:51	1 2		It's pretty fundamental. I wou	_	10:12:12 10:12:15	1 0	question A.	
	1 2 3			ld think		2	Α.	about what works very well or
10:09:51			ages have that; right?	ld think	10:12:15	2	Α.	about what works very well or Well, it is kind of a question about what
10:09:51 10:09:53	3	all packa	ages have that; right? MS. O'DELL: Object to the for	n. vary in the	10:12:15 10:12:16	2	A. works re	about what works very well or Well, it is kind of a question about what eally well.
10:09:51 10:09:53 10:09:54	3	all packa	nges have that; right? MS. O'DELL: Object to the form THE WITNESS: Yes, but they	n. vary in the	10:12:15 10:12:16 10:12:17	2 3 4 5	A. works re Q.	about what works very well or Well, it is kind of a question about what eally well. Okay. Focus on my question.
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	Case 3:16-md-02738-MAS-RLS Document	9733-9	Filed 05/07/19 Page 18 of 59 PageID:
4	S	υου	
10:12:51	Q. In the peer-reviewed literature where	10:38:03	you record your time; correct?
10:12:53	folks are looking at EDXA spectra to determine the	10:38:05 2	A. As far as recording the time
10:12:57 3	chemical composition of an unknown subject	10:38:08 3	Q. Yes.
10:13:00 4	A. Okay.	10:38:09 4	A. Yes, some of it, but not all of it.
10:13:01 5	Q does the peer-reviewed literature	10:38:11 5	Q. Okay. And who do you give those time
10:13:04 6	support both using peak heights and peak area to make	10:38:13 6	sheets to?
10:13:07 7	that determination?	10:38:13 7	A. I don't as I say, I go in and speak to
10:13:09	MS. O'DELL: Object to the form.	10:38:20	Bill's assistant and then give her the hours that I
10:13:10	THE WITNESS: I would have to review the	10:38:25	have.
10:13:12 10	literature. Standard methods use peak height.	10:38:25 10	Q. Is it your understanding that the other
10:13:19 11	Some may use peak area also. So as far as that,	10:38:26 11	people in your laboratory are giving their hours to
10:13:22 12	I would have to go and review it.	10:38:28 12	Bill's assistant?
10:13:24 13	Q. (By Mr. Chachkes) When you say standard	10:38:29 13	A. I don't know what they're doing.
10:13:25 14	methods, you mean in the peer-reviewed literature or	10:38:31 14	Q. Okay. Have they been instructed to keep
10:13:28 15	something else?	10:38:33 15	their time?
10:13:28 16	A. Sure. It would be if it's a standard	10:38:33 16	A. You'd have to ask Bill about that.
10:13:31 17	method it's going to be peer-reviewed.	10:38:36 17	Q. Okay. So I'd like to request of
10:13:33 18	Q. Okay. Looking at Exhibit 12 again, going	10:38:37 18	plaintiffs all invoices billed on behalf of the MDL
10:13:40 19	back to your EDXA printout, did you do a	10:38:41 19	at MAS.
10:13:46 20	comprehensive review of what minerals could	10:38:46 20	So let's
10:13:50 21	correspond to this EDXA spectra other than what you	10:38:48 21	A. I wanted to before we got started, I
10:13:55 22	believe it to be, which is tremolite?	10:38:51 22	wanted to bring up a point about the publications,
10:13:57 23	A. I didn't do a comprehensive review of	10:38:52 23	because I know you were asking about that.
10:13:59 24	this.	10:38:54 24	Q . Okay.
10:13:59 25	Q. Did anybody do a comprehensive review of	10:38:54 25	A. And it is our policy at our laboratory to
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	66		68
10:14:02		10:38:58	
10:14:02 1	the EDXA spectra to determine what other minerals	10:38:58 1	not discuss any possible publications that we may
_	the EDXA spectra to determine what other minerals they could correspond to?	10:39:02 2	not discuss any possible publications that we may have pending. It's part of our policy, and it's
10:14:05 2 10:14:07 3	the EDXA spectra to determine what other minerals they could correspond to? A. A comprehensive review. What do you mea	10:39:02 2 10:39:06 3	not discuss any possible publications that we may have pending. It's part of our policy, and it's actually what we consider as proprietary.
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	Case 3:	16-md-02738-MAS-RLS Document 9	733-9	Filed 05/07/19 Page 19 of 59 PageID:
10:39:51	One	is for 9,000 and one is for 14.)87 10:41:38	1 MS. O'DELL: I just prefer that that not
10:39:54 2	One	MS. O'DELL: Oh, yeah.		2 be marked.
10:39:56 3	Q.	(By Mr. Chachkes) By the way, did you		3 MR. CHACHKES: Why don't we hold up the
10:39:59 4		documents with you today?		4 invoices until a break. I don't have to ask
10:40:00 5	A.	I did.		5 about them now. We'll do it as a set. I don't
10:40:00 6	Q.	What documents did you bring with you?		6 want to
10:40:02 7	Α.	Let me get them out.		7 MS. O'DELL: Sure.
10:40:11 8	7	MS. O'DELL: May I see those just a minute		8 Q. (By Mr. Chachkes) Okay. All right. Back
10:40:13	to m	ake sure.		9 to EDXA.
10:40:19 10		THE WITNESS: The request.	10:41:52	
10:40:20 11	Q.	(By Mr. Chachkes) You don't have to hand	10:41:54	_
10:40:22 12		me, just tell me what they are.	10:42:05	• • • • • • • • • • • • • • • • • • • •
10:40:24 13	Α.	Okay. Let's see. This is the notice of	10:42:08	
10:40:27 14	oral and	videotaped deposition.	10:42:09	
10:40:28 15	Q.	Well, let me just ask this question. Did	10:42:11 15	· · · · · · · · · · · · · · · · · · ·
10:40:29 16	you bring	any documents that I might not already	10:42:14	16 A. It can vary.
10:40:31 17		o I have your report, I have the subpoena, I	10:42:16	
10:40:36 18		things lawyers exchange. Is there	10:42:19	
10:40:40 19	anything		10:42:19	
10:40:40 20	Α.	You have the quality report?	10:42:22 20	20 formula based on how many metal ions that tremolite
10:40:42 21	Q.	Yes, we have the quality report; correct?	10:42:27 2	21 has, it can vary a bit.
10:40:45 22	And you	brought that?	10:42:29 22	Q. When you say a bit, what's the margin
10:40:46 23	Α.	I brought a copy of that. There was one	10:42:32 2 3	error there?
10:40:48 24	minor ty	pographical error I found in that.	10:42:33 24	24 A. You know, as far as a margin of error,
10:40:50 25	Q.	We'll get to that.	10:42:36 25	25 peak height ratios, that type of thing, it just
	Atlanta Re	porters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
		70		72
10:40:52	A.	70 Okay.	10:42:41	72 1 varies. So, you know, it varies.
10:40:52 1 10:40:52 2	A. Q.			
		Okay. Anything else you brought that I might not	10:42:45	1 varies. So, you know, it varies.
10:40:52 2	Q.	Okay. Anything else you brought that I might not	10:42:45	 varies. So, you know, it varies. Q. Do you have any opinion sitting here today
10:40:52 2 10:40:54 3	Q . otherwise A .	Okay. Anything else you brought that I might not have?	10:42:45 10:42:47 10:42:51	 varies. So, you know, it varies. Q. Do you have any opinion sitting here today as to what the peer-reviewed literature suggests as
10:40:52 2 10:40:54 3 10:40:55 4	Q. otherwise A. the start	Okay. Anything else you brought that I might not have? You probably have everything. I brought	10:42:45 10:42:47 10:42:51 10:42:54	 varies. So, you know, it varies. Q. Do you have any opinion sitting here today as to what the peer-reviewed literature suggests as the acceptable variations when you're looking at an
10:40:52 2 10:40:54 3 10:40:55 4 10:40:59 5	Q. otherwise A. the start we've us	Okay. Anything else you brought that I might not have? You probably have everything. I brought ting weight sheets, the weight sheets that	10:42:45 10:42:47 10:42:51 10:42:54 10:42:58	 varies. So, you know, it varies. Q. Do you have any opinion sitting here today as to what the peer-reviewed literature suggests as the acceptable variations when you're looking at an EDXA for determining a mineral from the
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-Page 20 of 59 Page ocumei 73 88 35 1 be a definite number because it's based on the 1 spectrum, in Number 12, if the magnesium was up in 10:43:52 10:46:07 chemical formula, and the chemical formula for a 2 2 the middle somewhere up high towards the silicon 10:43:57 10:46:11 3 3 mineral is set in stone, as it were? peak, you might have a question about it at that 10:43:58 10:46:14 4 MS. O'DELL: Object to the form. 10:46:16 4 point. If the calcium peak was down lower, then you 5 5 might have a question about it at that point too. THE WITNESS: Well, again, now, if you're 10:44:02 10:46:20 6 just talking about the formula, then, yes, you 6 So you can get some variation again like 10:44:03 10:46:22 would have ratios based on the formula. You 10:46:26 7 that, depending upon the mineralogy of tremolite in 7 10:44:05 know, forget the EDXA for a minute. 8 that area. So again, you're going to have a little 8 10:46:29 9 But based on the chemical formula and the 9 bit of variation. But if it's too far away from 10:46:32 10:44:10 10 loading of the ions, you know, in that formula, 10:46:35 10 that, then, yeah, there's a question about that. 10:44:12 10:44:15 11 you're going to have, you know, a set amount 10:46:37 11 Do you have any opinions sitting here 10:44:19 12 there. But when it comes to the actual today whether the EDXA spectra in 12 is more like 10:46:39 12 10:44:21 13 spectroscopy you're going to have a little bit 10:46:44 13 another mineral than tremolite? 10:44:23 14 of variation. 10:46:47 14 MS. O'DELL: Object to the form. 10:44:24 15 (By Mr. Chachkes) Okay. And just by way THE WITNESS: Well, I don't have an 10:46:48 15 10:44:25 16 of example, anthophyllite, the chemical formula, has 10:46:50 16 opinion on that right now. 10:46:52 17 10:44:29 17 seven magnesiums, eight silicon; right? (By Mr. Chachkes) And so did you actually 18 Uh-huh. 10:46:55 18 run the metal-to-silicon ratios for your EDXA? 10:44:32 10:44:33 19 Q. Is that a ves? 10:46:59 19 MS. O'DELL: Object to the form. 10:44:34 20 Yes. 10:47:00 20 THE WITNESS: I didn't run it, no. Δ 21 10:47:02 21 (By Mr. Chachkes) Okay. Did anybody run Q. I'm sorry --Q. 10:44:38 **22** A. It's okay. 10:47:03 **22** it? 10:47:03 23 10:44:38 23 Q. -- show up on the transcript. I don't know. I would have to check. 10:44:38 24 And then that ratio of 7-to-8 is the ideal 10:47:04 24 As the author of the expert report that Q. 10:44:44 **25** metal-to-silicon ratio under EDXA for anthophyllite? 10:47:09 **25** has these EDXA spectra upon which you're making Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 1 Well, no, that's for the formula. That 1 conclusions, wouldn't that be important information 10:44:48 10:47:12 2 would be for the formula. Once again, when you get 2 to know? 10:47:14 3 3 to a spectroscopic method, it's going to vary a bit. MS. O'DELL: Object to the form. 10:44:53 4 MS. PARFITT: Objection. So did you -- so in Exhibit 12, do you see 10:47:21 10:44:57 5 how tremolite is written there at the top? 5 THE WITNESS: The information that we have 10:45:03 10.47.22 10:45:05 6 Α. Yes. 6 from the spectrometer is accurate, and the peak 10:47:23 7 7 Q. That's not what the machine generated ratios that you see here are consistent with 10:45:05 8 based on the spectra; you typed that in; correct? 10:47:34 8 tremolite. It could be consistent with some 10:45:07 9 The analyst typed that in, yes. But that other minerals. That's why we do not use EDS; 10:47:37 10:45:12 10 10:47:42 10 that's why we would do electron diffraction, and correlates with tremolite, with a tremolite spectrum. 10:45:14 10:45:18 11 And so do you expect in this Exhibit 12 10:47:45 11 we also look at the shape and the form of the 10:47:47 12 10:45:25 12 EDXA spectra that the ratio of metal to silicon is material, too. So those things together allow 13 going to be 5-to-8 or somewhere in the vicinity of 10:47:51 13 us to say, yeah, this is tremolite. 10:45:31 14 5-to-8? 10:47:53 14 (By Mr. Chachkes) Okay. Do you go into 10:45:34 10:45:35 15 Α. 10:47:54 15 the EDXA -- do you take the EDXA spectra, say, I'm It could be, ves. 10:45:36 16 10:48:02 16 a And when you say it could be, would you going to assume it's an asbestos and now I'm going to 10:45:42 17 identify something that has a metal-to-silicon ratio 10:48:05 17 figure out which one? You don't do that, do you? 10:45:45 18 nowhere near 5-to-8 as tremolite under EDXA? 10:48:07 18 MS. O'DELL: Object to the form. 10:45:49 19 MS. O'DELL: Object to the form. 10:48:08 19 THE WITNESS: Typically what happens is THE WITNESS: Can you just restate the 10:48:12 20 10:45:50 20 the analyst will take a spectrum, they'll look 10:45:52 **21** 10:48:17 21 at the spectrum, then they will flip over -- and question, please? 10:48:20 22 10:45:53 22 (By Mr. Chachkes) Okay. What margin of they're in the same spot, they'll refigure the 10:45:54 23 error in the metal-to-silicon ratio would be so great 10:48:24 23 scope, and then they will do electron 10:45:59 24 that you would say, well, that's not tremolite? 10:48:26 24 diffraction. 10:46:02 **25** 10:48:26 25 Well, again, if, for instance, in this They'll look at the diffraction pattern, Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com

	Case 3:16-md-02738-MAS-RLS Document 9	733-9 - I	F iled 05/07/19 Page 21 of 59 PageID:
10:48:28	and then they will make a decision at that	10:51:03 1	and there's also ISO 13794. The EPA one's here, it's
10:48:29 2	particular point as to whether it's consistent	10:51:12 2	40 CFR part 763. They're on page 11 of the report.
10:48:32	with that form or not. Then they'll index the	10:51:19 3	Q. Okay. Any other published literature that
10:48:35	pattern. They'll confirm that with verification	10:51:19 4	approves of this method that you're using?
10:48:38 5	of the indexing of the pattern.	10:51:23 5	MS. O'DELL: Object to the form.
10:48:39	Q. (By Mr. Chachkes) Okay. So the EDXA	10:51:25	THE WITNESS: Probably there are, but
10:48:44 7	so the judgment call by the analyst to what mineral	10:51:28 7	these are major standards that are used.
10:48:48 8	they're looking at is based on a combined looking at	10:51:32	Q. (By Mr. Chachkes) Sitting here today can
10:48:51 9	the EDXA spectra and the SAED?	10:51:33	you think of any others?
10:48:56 10	A. Yes, and also the form. The form.	10:51:34 10	A. I'm trying to think of them. As I sit
10:49:02 11	Q . And when you say the form, what do you	10:51:40 11	here, I can't, but I know there are some others.
10:49:03 12	mean, the form?	10:51:42 12	Q . Okay.
10:49:04 13	A. Well, for instance, if it's a round	10:51:42 13	A. Yeah.
10:49:09 14	structure or something that is not fibrous or	10:51:43 14	Q. Now, let's take, for example, 22262.
10:49:12 15	crystalline as you would expect tremolite to be,	10:51:48 15	There's a section on EDXA; correct?
10:49:14 16	then, you know, it's a guess as it could be some	10:51:54 16	A. To my knowledge there is, yes.
10:49:17 17	other form.	10:51:55 17	Q. Right. And there's a section on SAED?
10:49:19 18	Q. Can you cite to me any peer-reviewed	10:51:58 18	A. I would have to look at it. I don't have
10:49:21 19	literature or textbook, even, that says taking	10:52:00 19	it right in front me.
10:49:26 20	simultaneously the data from an EDXA, SAED, and the	20	Q . Okay.
10:49:32 21	form is the proper way to identify a mineral?	10:52:01 21	A. If you've got it, I'll look at it. I
10:49:37 22	MS. O'DELL: Object to the form.	10:52:03 22	don't have it right in front of me.
10:49:38 23	THE WITNESS: Well, I mean, if you want to	10:52:03 23	Q. Does 22262 expressly say you consider the
10:49:39 24	look at the way EPA said to do it and continues	10:52:08 24	EDXA and SAED together even though that independently
10:49:42 25	to say to do it, you know, in the '70s and the	10:52:12 25	they may be inconclusive?
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,	78		80
10:49:47	'80s and was published, this is the way to do	10:52:13	A. I
10:49:50 2	'80s and was published, this is the way to do it.	10:52:13	A. I MS. O'DELL: Excuse me.
10:49:50 2 10:49:50 3	'80s and was published, this is the way to do it. Q. (By Mr. Chachkes) Okay. So you've cited	10:52:13 2 10:52:15 3	A. I MS. O'DELL: Excuse me. Dr. Rigler, I've got a copy here that was
10:49:50 2 10:49:50 3 10:49:52 4	'80s and was published, this is the way to do it. Q. (By Mr. Chachkes) Okay. So you've cited the EPA. Anything else, any other published sources?	10:52:13 2 10:52:15 3 10:52:17 4	A. I MS. O'DELL: Excuse me. Dr. Rigler, I've got a copy here that was marked, if you need to see 22262-2. I'll
10:49:50 2 10:49:50 3 10:49:52 4 10:49:55 5	'80s and was published, this is the way to do it. Q. (By Mr. Chachkes) Okay. So you've cited the EPA. Anything else, any other published sources? A. It's also done there are a number	10:52:13 2 10:52:15 3 10:52:17 4 10:52:20 5	A. I MS. O'DELL: Excuse me. Dr. Rigler, I've got a copy here that was marked, if you need to see 22262-2. I'll provide it to you if counsel will not do that.
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10:49:50 2 10:49:50 3 10:49:52 4 10:49:55 5 10:49:57 6 10:49:59 7 10:50:03 8 10:50:05 9	'80s and was published, this is the way to do it. Q. (By Mr. Chachkes) Okay. So you've cited the EPA. Anything else, any other published sources? A. It's also done there are a number of ASTM they are referenced here in our report. Q. Okay. Is it your opinion that 22262 sanctions that methodology? A. To my knowledge, yes.	10:52:13	A. I MS. O'DELL: Excuse me. Dr. Rigler, I've got a copy here that was marked, if you need to see 22262-2. I'll provide it to you if counsel will not do that. THE WITNESS: Okay. Q. (By Mr. Chachkes) Let me ask this question. Are you able to answer the question MS. PARFITT: Give him a chance to look at
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10:52:43	Case 3:16-md-02/38-MAS-RLS Document 9 81 35(MR. CHACHKES: Okay. Another list for the	10:54:11 1	So, yes, you start with an inconclusive;
10:52:43 2	magistrate.	10:54:15 2	yes, you start with an inconclusive; yes, you
3	Go ahead.	10:54:17 3	start with an inconclusive; and you put those
10:52:45 4	MS. PARFITT: Excuse me. Let's make it	10:54:19 4	together to come up with a conclusive answer.
10:52:46 5	clear. So the question for the magistrate is	10:54:21 5	Q. (By Mr. Chachkes) Okay.
10:52:48 6	when you talk about a document and the witness	10:54:21 6	A. Yep.
10:52:50 7	wants to see it, you want to bring up to the	10:54:22 7	Q. At a break I would like you to look at
10:52:53	magistrate that you aren't going to give it to	10:54:26	your document
10:52:55	him? Is that the subject matter?	10:54:28	A. Okay.
10:52:56 10	MR. CHACHKES: Let's look at the	10:54:28 10	Q and specifically look for somewhere
10:52:57 11	transcript. Did he say he wanted to see it?	10:54:30 11	where it says you can take three separate and
10:52:58 12	You said he wanted to see it.	10:54:32 12	independent inconclusive analytical results and
10:52:59 13	MS. PARFITT: Dr. Rigler, would you like	10:54:36 13	combine them to make a conclusive result. Okay?
10:53:02 14	to see the document?	10:54:43 14	MS. O'DELL: Object to the form.
10:53:02 15	THE WITNESS: Sure.	10:54:44 15	THE WITNESS: Well, let me just state that
10:53:03 16	MS. PARFITT: Thank you.	10:54:48 16	in science, one of the best ways to come up with
10:53:04 17	MR. CHACHKES: All right.	10:54:51 17	a good answer is use multiple techniques to be
10:53:05 18	MS. PARFITT: It's amusing, isn't it? Why	10:54:54 18	able to make a conclusion. You use one
10:53:08 19	don't you act appropriate.	10:54:57 19	particular technique, that's good. You use
10:53:09 20	Q. (By Mr. Chachkes) Anyway, is it your	10:55:02 20	another technique in conjunction with that,
10:53:10 21	opinion that 22262 says you can take an inconclusive	10:55:04 21	that's better. Use three techniques in
10:53:15 22	EDXA and you can take an inconclusive SAED and	10:55:07 22	conjunction with that, that's very good.
10:53:19 23	together make a determination of what mineral you're	10:55:09 23	So typically this is the way that we work
10:53:22 24	looking at?	10:55:13 24	as scientists. So that's the way that these
10:53:23 25	MS. O'DELL: Object to the form.	10:55:19 25	documents are written, you know. Again, a good
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	82		84
10:53:24	THE WITNESS: I would have to take a break	10:55:22	example is AHERA as to how they would do that,
10:53:24 1		10:55:22 1	example is AHERA as to how they would do that, they want the scientists to do it.
١ .	THE WITNESS: I would have to take a break to read it and review it, and then I can give you an answer to that question.		·
10:53:26 2	to read it and review it, and then I can give	10:55:24 2	they want the scientists to do it.
10:53:26 2 10:53:28 3	to read it and review it, and then I can give you an answer to that question. Q. (By Mr. Chachkes) Okay. Sitting here	10:55:24 2 10:55:25 3	they want the scientists to do it. Q . (By Mr. Chachkes) Will you do me that
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Filed 05/07/19 ocument 85 Page 23 of 59 Page 91 350 1 10:56:05 MS. PARFITT: You know, Alex, you have a 1 MR. CHACHKES: And I would appreciate in 10:57:36 difficult time talking over people as well, so 2 2 the future when I ask those questions you don't 10:56:07 10:57:37 3 3 I'm not trying to -tell the witness how the appropriate manner is, 4 10:56:10 4 MR. CHACHKES: I'll let you finish. Go 10:57:39 that he is allowed to finish answering the 5 ahead. 5 questions. 10:57:40 6 MS. PARFITT: Thank you. I appreciate 6 MS. PARFITT: Well, let's not trip a 10:57:41 7 that. It's very kind of you. 10:57:43 7 witness. I think let's have a very honest 10:56:13 Are you asking him to do a project for you 8 discussion with the witness, all right? 8 10:56:13 10:57:45 9 on his break; is that what you're asking him? So that's what we're trying to do is have 10:56:16 10:57:46 an honest discussion with the witness, and I see 10:56:18 10 MR. CHACHKES: He has come here as an 10:57:49 10 10:56:20 11 expert on the subject matter of how one 10:57:55 11 you're trying to do that. 10:56:21 12 determines whether there's asbestos in talc, and 10:57:55 12 (By Mr. Chachkes) Okay. So you said the 10:56:23 13 he has testified that there are various 10:57:58 13 analyst is simultaneously doing an EDXA and an SAED; 10:56:24 14 standards by which they sanction his 14 correct? 10:56:27 15 methodology. I want a specific opinion as to 10:58:03 15 They can. A. 10:56:30 16 how indeed that happens. 10:58:03 16 Q. They can. 10:56:32 17 10:58:04 17 So he should be able to do that. He Well, I mean, simultaneously -- you have 10:56:34 18 should have come prepared for that. So I want 10:58:06 18 to do one at a time, but you can do them essentially 10:56:35 19 him to read the document and come back with 10:58:11 19 in the same sitting. 10:56:38 20 specifics. That's what I want. 10:58:12 **20** Would the analyst -- would it be 10:56:39 **21** MS. PARFITT: Well, I think there may be a 10:58:15 21 appropriate for an analyst to take something like 10:56:41 **22** miscommunication. I don't think he's telling 10:58:18 22 Exhibit 12 without having done the SAED yet, without 10:58:20 23 10:56:43 23 you he can't do it. The difference is if you having done visual morphology yet, to make a 10:56:46 24 want to ask him that question, he goes through 10:58:23 24 conclusion about what mineral they're looking at? 10:56:48 **25** it right now while we're on the record, that's 10:58:26 **25** Well, that's not the way we do it. Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com 1 fine 1 Would it be appropriate to do it that way? Q. 10:56:51 10:58:30 2 MR. CHACHKES: I'll tell you what we'll 10:58:32 2 A. I'm telling you that's the way we do it. 3 3 do. I plan to finish without exhausting my The question is as an expert in the area, 10:56:53 10:58:33 seven-hour time. If it takes a few hours to go 4 is it appropriate to do it? If they did it, would it 10:58:35 10:56:56 5 through documents, we'll do that at the end, 5 be inappropriate? 10:57:00 10:58:37 6 6 okay? They could do it. 10:58:38 7 7 MS. PARFITT: Go through --MS. O'DELL: Object to the form. 8 THE WITNESS: Well, I think --10:58:40 8 THE WITNESS: They could do it if they 9 MR. CHACHKES: He can do it on the record. wanted to, but that's not the way we do it. 10:58:41 10:57:02 10:57:02 10 He can just sit there reading the documents on 10:58:43 10 (By Mr. Chachkes) Okay. And it wouldn't 10:57:04 11 the record. We'll stay here until 9:00 if 10:58:44 11 be inappropriate -- when I say inappropriate, bad 10:57:06 12 10:58:47 12 that's what's required. science? 10:57:08 13 MS. PARFITT: That's fine. 10:58:48 13 MS. O'DELL: Object to the form. 10:57:11 14 MR. CHACHKES: Okay. I mean, right now I 10:58:49 14 THE WITNESS: Bad science? I don't know 10:57:13 15 understand the dispute to be not whether he can 10:58:51 15 what you mean by that. 10:57:17 16 go through the documents and give me the answer. 10:58:52 16 (By Mr. Chachkes) Okay. So something 10:57:18 17 You just want it on the record. 10:58:55 17 that would not give you within a reasonable degree of 10:57:19 18 MS. PARFITT: What I would like to have on 10:59:00 18 scientific certainty the conclusion that, ah, this is 10:57:20 19 the record is your question and his response and 10:59:01 19 the mineral I'm looking at? 10:57:22 **20** he will tell you -- since I'm not testifying --10:59:02 20 Well, they would want to do that. They 10:57:24 **21** he will tell you whether he can respond in kind 10:59:05 **21** would be required to do that at our laboratory. 10:57:27 22 10:59:07 22 Yeah. to your question and in an appropriate manner. Q. 10:57:30 23 If the appropriate manner for him to respond to 10:59:08 23 They wouldn't just look at one of these 10:57:33 24 your question requires him to look at something, 10:59:09 24 and say, yeah, it's tremolite. 10:57:36 25 10:59:11 25 then he's entitled to do it. Okay. But I'm asking -- it's not Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com

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_		192	91
10:59:12	empirically what's going on, so focus on the	11:01:15	Q. Okay. I would ask that that be produced.
10:59:15 2	question. The question is, is it bad science to take	11:01:18 2	Sitting here now, do you remember what
10:59:17 3	only, like in Exhibit 12, EDXA and a spectrum and	11:01:20 3	that protocol is, which comes first, like EDS or SAED
10:59:25 4	make a conclusion about the mineral?	11:01:27 4	or visual morphology under TEM?
10:59:27 5	MS. O'DELL: Object to the form.	11:01:29 5	A. Yeah, I want to say that it is EDS first,
10:59:28 6	THE WITNESS: Is it bad science? It's	11:01:31 6	and then they do the diffraction, but I would have to
10:59:31 7	observation. They can make an observation which	11:01:35 7	look and see what it is.
10:59:33	may lead them to additional kinds of	11:01:37	Q. Do the analysts type in the mineral
10:59:37	observations. You may take an expert in	11:01:41 9	identification at the top of the printout at the time
10:59:40 10	mineralogy who looks at this and goes yeah, it's	11:01:45 10	they do the EDS before they do the diffraction?
10:59:43 11	tremolite. You may take an expert in mineralogy	11:01:48 11	MS. O'DELL: Object to the form. Asked
10:59:46 12	in academia that would say it was.	11:01:49 12	and answered.
10:59:49 13	Q . (By Mr. Chachkes) Okay. So it is good	11:01:49 13	THE WITNESS: Again, I would have to I
10:59:50 14	science to take something like the EDXA printout in	11:01:52 14	would have to see. I can't recall right now.
10:59:54 15	isolation and say I know what mineral that is?	11:01:55 15	They're not going to type that on there unless
10:59:55 16	MS. O'DELL: Object to the form.	11:01:57 16	they're sure that understand that.
10:59:56 17	Misstates his testimony.	11:01:59 17	Q. (By Mr. Chachkes) It's a question
10:59:57 18	THE WITNESS: Right, we again, that's	11:02:00 18	about timing.
10:59:59 19	not the way that we do that at our laboratory.	11:02:01 19	A. Yes, I understand the question about
11:00:01 20	And you may have an academic that does that	11:02:03 20	timing. I get that. I get it.
11:00:03 21	who's a crystallographer or mineralogist who	11:02:04 21	They can start to do an EDS, then they can
11:00:06 22	looks at that and goes, yeah, it's tremolite.	11:02:07 22	do diffraction, and then they can make the call on
11:00:09 23	Q . (By Mr. Chachkes) So what is your	11:02:11 23	that. They're not going to make the call unless
11:00:16 24	recommended procedure for when is the tremolite	11:02:13 24	they're sure.
11:00:18 25	typed in the top? Is it right after the EDXA	11:02:14 25	Q. Do you know whether the so it's
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	90		92
11:00:20 1	90 printout comes up?	11:02:18 1	92 possible that they go back into the software after
11:00:20 1 11:00:21 2		11:02:18 1 11:02:22 2	
1	printout comes up?	_	possible that they go back into the software after
11:00:21 2	printout comes up? A. Well, as I say, they've done the	11:02:22 2	possible that they go back into the software after the diffraction and type in the name of the mineral
11:00:21 2 11:00:25 3	printout comes up? A. Well, as I say, they've done the diffraction, they've looked at this. They may do	11:02:22 2 11:02:26 3	possible that they go back into the software after the diffraction and type in the name of the mineral at the top of the EDS?
11:00:21 2 11:00:25 3 11:00:28 4	printout comes up? A. Well, as I say, they've done the diffraction, they've looked at this. They may do another EDS on this to verify what they got to start	11:02:22 2 11:02:26 3 11:02:27 4	possible that they go back into the software after the diffraction and type in the name of the mineral at the top of the EDS? MS. O'DELL: Object to the form.
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11:00:21	A. Well, as I say, they've done the diffraction, they've looked at this. They may do another EDS on this to verify what they got to start with, and then they would probably type that in there then. Q. Okay. I've seen no sample for which there are two EDS. Does that mean we have not received these duplicate EDS runs? MS. O'DELL: Object to the form. THE WITNESS: Well, no. Again, they may do they may start to do an EDS on that, go, yeah, that looks like tremolite, let me do the diffraction on this, right, and then they may come back and do a 300 seconds on the EDS. So, you know, they're not going to call it unless they're sure of it from the diffraction. Q. (By Mr. Chachkes) Do you have a policy at MAS for the order in which the various analyses are done? A. Well, we have a protocol for that Q. Okay. A yeah.	11:02:22	possible that they go back into the software after the diffraction and type in the name of the mineral at the top of the EDS? MS. O'DELL: Object to the form. THE WITNESS: I don't know. I would have to find out. But again, they're not going to type that in there unless they're sure of it. Q. (By Mr. Chachkes) Okay. A. That's what you need to understand. Q. Yeah, I know I understand your A. I want you to understand that. You don't seem to understand that. Q. You have said that ten times A. Good. Q it's on the record A. I want to make it clear. Q. What I understand or don't understand is really not at issue. It's what you understand, okay? Do you understand that? A. Sure. Q. Okay. A. And what I'm telling you is it's not typed on there unless they're sure of it.

	Case 3:	16-md-02738-MAS-RLS Docur	nent 9	733- 9) [Filed 05/07/19 Page 25 of 59 Page<u>l</u>D:
	_	93	350	93		95
11:02:53	Α.	I can say it again.		11:05:10	1	actinolite?
11:02:54	Q.	Okay. And so do you I guess I'd have		11:05:12	2	A. Well it looks more like talc than
11:02:59 3		the analyst to figure out how they do		11:05:19	3	actinolite, you're saying?
11:03:01 4	this.			11:05:20	4	Q. Yeah.
11:03:01 5		MS. O'DELL: Object to form.		11:05:21	5	A. I'd have to think about that. It's
11:03:02 6		THE WITNESS: You can talk to Dr. Longo		11:05:23	6	possible. Yeah, it's possible.
11:03:03 7	and	he can also tell you.		11:05:25	7	Q. Okay. And what would you be looking for?
11:03:04	Q.	(By Mr. Chachkes) Yeah, but he's not		11:05:27	8	A. Well, depending upon how much iron was in
11:03:05	doing the	runs either, is he?		11:05:33	9	there. You know, you can have fibrous talc that
11:03:07 10	A.	Well, he directs the lab.		11:05:35	10	would have, you know, some iron with it, that kind of
11	Q.	All right.		11:05:39		thing. So it would just depend on the it would
11:03:08 12	A.	So it's his responsibility.		11:05:41	12	depend on the form and look at the diffraction
11:03:10 13	Q.	Okay. And looking at Exhibit 12, the		11:05:43	13	pattern.
11:03:18 14	EDXA, wl	nat tells you that this is tremolite?		11:05:43	14	Q . Is there an EDXA in isolation that you
11:03:20 15	A.	The peak sets that you have here.		11:05:47	15	would say that's definitely talc, it is not
11:03:23 16	Q.	Okay. And when you say walk me thro	ugh	11:05:50	16	actinolite?
11:03:26 17	that.			11:05:50	17	A. Yeah, I mean, again, if the iron if it
11:03:26 18	A.	The peak sets?		11:05:56	18	practically has no iron and you're looking at the
11:03:27 19	Q.	Yes. Why are these peak sets tremolite		11:05:58	19	form of it and it's a plate, you go, well, yeah,
11:03:30 20	and not	some other mineral?		11:06:01	20	that's most likely talc; you do the diffraction on
11:03:32 21	A.	Some other mineral. Well, again, unt	il	11:06:05	21	it, it's most likely talc.
11:03:35 22	you do t	he diffraction, you may not be complet	ely	11:06:06	22	Q . So you brought in form, you brought in
11:03:38 23	sure of i	t, but the mag and the silicon ratios lo	ok	11:06:07	23	diffraction
11:03:42 24	correct	and as well as the calcium ratios for		11:06:08	24	A. Right.
11:03:44 25	tremolit	e.		11:06:08	25	Q so I'm saying let's put those aside.
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11:03:45 1		·		11:06:10	1	
11:03:45 1 11:03:47 2		94	If	11:06:10 11:06:13	1 2	96
_		94 Now, there's a small iron peak there. n peak was increased significantly, it w	If		1 2 3	96 Just in isolation, just looking at the EDXA, is there
11:03:47 2	that iro	94 Now, there's a small iron peak there. n peak was increased significantly, it w	If ould	11:06:13	_	96 Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's
11:03:47 2 11:03:50 3	that iron be actin Q.	94 Now, there's a small iron peak there. n peak was increased significantly, it w olite.	If ould	11:06:13 11:06:15	3	96 Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's definitely talc, it's not actinolite?
11:03:47 2 11:03:50 3 11:03:52 4	that iron be actin Q. analysts	94 Now, there's a small iron peak there. n peak was increased significantly, it wolite. Okay. Are there any instances where you	If ould	11:06:13 11:06:15 11:06:17	3	Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's definitely talc, it's not actinolite? MS. O'DELL: Object to the form.
11:03:47 2 11:03:50 3 11:03:52 4 11:04:01 5	that iron be actin Q. analysts	94 Now, there's a small iron peak there. In peak was increased significantly, it wolite. Okay. Are there any instances where you get an EDS printout or spectra and say, ah	If ould	11:06:13 11:06:15 11:06:17 11:06:18	3 4 5	Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's definitely talc, it's not actinolite? MS. O'DELL: Object to the form. THE WITNESS: Again, if it had no iron
11:03:47 2 11:03:50 3 11:03:52 4 11:04:01 5 11:04:09 6	that iron be actin Q. analysts that's no	Now, there's a small iron peak there. In peak was increased significantly, it wolite. Okay. Are there any instances where you get an EDS printout or spectra and say, ah t an asbestos?	If ould r	11:06:13 11:06:15 11:06:17 11:06:18 11:06:24	3 4 5 6	Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's definitely talc, it's not actinolite? MS. O'DELL: Object to the form. THE WITNESS: Again, if it had no iron I mean, you're looking at the thing. It's not
11:03:47 2 11:03:50 3 11:03:52 4 11:04:01 5 11:04:09 6 11:04:12 7	that iron be actin Q. analysts that's no A. Q.	Now, there's a small iron peak there. In peak was increased significantly, it wolite. Okay. Are there any instances where you get an EDS printout or spectra and say, ah than asbestos? I'm sure there are, yeah, yes.	If ould r	11:06:13 11:06:15 11:06:17 11:06:18 11:06:24 11:06:26	3 4 5 6 7	Just in isolation, just looking at the EDXA, is there an EDXA that in isolation you can say that's definitely talc, it's not actinolite? MS. O'DELL: Object to the form. THE WITNESS: Again, if it had no iron I mean, you're looking at the thing. It's not like you're not looking at it. It's on the
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,	<u> </u>	0 94	•
11:07:19	mineral	11:09:32	done in one axis, pick it up and say I am sure that's
11:07:20 2	A. Yes.	11:09:36 2	an amphibole?
11:07:20 3	Q as far as the EDXA printout goes, it's	11:09:36	A. Yeah, if you measure it out, if you do the
11:07:22 4	qualitative, not quantitative?	11:09:40 4	verification, you know, you do the measurements on
11:07:24 5	A. Well, yeah, it is a qualitative analysis	11:09:42 5	it, it will give you the lattice parameters of an
11:07:28 6	as they're looking at this.	11:09:46 6	amphibole of some type or, you know, maybe a
11:07:29 7	Q . And do you understand, when I say	11:09:49 7	serpentine of some type if it's chrysotile. And then
11:07:31	qualitative, it's not based on precise numbers, it's	11:09:52	you can go, yeah, this is a it possibly is at this
11:07:34	based on kind of their eyeball look at it?	11:09:56	point.
11:07:36 10	MS. O'DELL: Object to the form.	11:09:56 10	Q. Okay. I'm not asking if it possibly is.
11:07:37 11	THE WITNESS: That's the way most, I would	11:09:58 11	I'm saying is there a one-axis diffraction pattern
11:07:40 12	say, laboratories do this.	11:10:01 12	that is uniquely strike that.
11:07:41 13	Q . (By Mr. Chachkes) So you include a lot of	11:10:07 13	A. Yeah.
11:07:48 14	SAED patterns for in your report; right?	11:10:07 14	Q. If I had a one-axis diffraction pattern
11:07:52 15	A. Yes.	11:10:12 15	for a phyllosilicate, there's no way you're going to
11:07:52 16	Q . Okay. What is SAED?	11:10:15 16	confuse that with an amphibole?
11:07:53 17	A. Selected area electron diffraction.	11:10:17 17	A. Probably not.
11:07:55 18	Q . Can you just at a high level tell me how	11:10:19 18	Q. Why not?
11:07:58 19	that works?	11:10:20 19	A. They're stacked layers versus what is in
11:08:00 20	A. Tell you how it works?	11:10:28 20	an amphibole where you have essentially I don't
11:08:01 21	Q. Yeah, just you know, you've got it's	11:10:34 21	know how to describe it. They're like railroad iron,
11:08:03 22	in the TEM, what do you do?	11:10:41 22	what do you call it, like railroad tracks. That's
11:08:04 23	A. Yep. We talked about it a little bit	11:10:44 23	how they're stacked up in an amphibole; whereas in a
11:08:07 24	before. You essentially set the microscope up to	11:10:47 24	phyllosilicate, you've got flat planes mostly.
11:08:13 25	isolate the beam on the area of interest, and then	11:10:50 25	Q . Okay. If I were to hand you a one-axis
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11:08:17 1	it's very much like the sample is much like a	11:10:51 1	SAED right now, you could tell me whether it was an
11:08:23	prism.	11:10:54 2	amphibole versus a phyllosilicate?
11:08:24 3	You know how you hold a prism up in the	11:10:56 3	A. Probably. I don't know if I could tell
11:08:26 4	light and it breaks it all up into colors. All	11:10:59 4	you as I sit here right now, but, you know, based on
11:08:28 5	right. So the reason that's happening is because the	11:11:01 5	the knowledge of the planes, measuring the crystal
11:08:30 6	electrons or, in this case, the wavelength of light,	11:11:08 6	planes, it's a good possibility you could say, yeah,
11:08:33 7	is slowed so that you get the different colors.	11:11:10 7	it's probably an amphibole.
11:08:38	In this case, the electron beam goes	11:11:11 8	Q . Okay. Within a reasonable degree of
11:08:40	through the specimen and it strikes the lattice	11:11:13 9	scientific certainty?
11:08:44 10	planes. These are the planes that make up the	11:11:13 10	A. Yeah, I think you could say that, but
11:08:46 11	crystal and they reflect off and they give you all of	11:11:17 11	you'd want more data on it to be able to call the
11:08:48 12	these spots, patterns. And they're specific for the	11:11:20 12	class.
11:08:51 13	kind of material that you're looking at.	11:11:20 13	Q. Did you do a comprehensive review of
11:08:52 14	Q . Okay. Can you identify a particle as	11:11:23 14	crystalline material to determine whether there are
11:08:55 15	asbestos with SAED alone?	11:11:28 15	SAED patterns in one axis that look like amphiboles?
11:08:58 16	MS. O'DELL: Object to the form.	11:11:35 16	MS. O'DELL: Object to the form.
11:08:59 17	THE WITNESS: You can get to an	11:11:36 17	THE WITNESS: Well, I think the answer to
11:09:06 18	understanding of whether this is an amphibole,	11:11:37 18	that is there are a number of them, and
11:09:11 19	and then from there you need the other	11:11:42 19	depending upon the plane, the axis of the plane,
		11:11:52 20	you know, you've got to do the measurements on
11:09:12 20	information to help make the conclusion.		you know, you've got to do the measurements on
11:09:15 21	Q. (By Mr. Chachkes) And can you understand	11:11:54 21	those.
11:09:15 21 11:09:20 22	Q. (By Mr. Chachkes) And can you understand if a particle is an amphibole based on an SAED	11:11:54 21 11:11:54 22	those. So the answer to that is there are a
11:09:15 21 11:09:20 22 11:09:25 23	Q. (By Mr. Chachkes) And can you understand if a particle is an amphibole based on an SAED with in isolation that's only done with one axis?	11:11:54 21 11:11:54 22 11:11:57 23	those. So the answer to that is there are a number of different planes; but in any one
11:09:15 21 11:09:20 22 11:09:25 23 11:09:27 24	 Q. (By Mr. Chachkes) And can you understand if a particle is an amphibole based on an SAED with in isolation that's only done with one axis? A. Yes, you can could that. 	11:11:54 21 11:11:54 22 11:11:57 23 11:12:00 24	those. So the answer to that is there are a number of different planes; but in any one sitting, again, if you get a good diffraction
11:09:15 21 11:09:20 22 11:09:25 23	Q. (By Mr. Chachkes) And can you understand if a particle is an amphibole based on an SAED with in isolation that's only done with one axis?	11:11:54 21 11:11:54 22 11:11:57 23	those. So the answer to that is there are a number of different planes; but in any one

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		095	
11:12:08 1	come up with whether it is an amphibole.	11:13:56 1	Did anybody at it's a yes or no
11:12:10 2	Q. (By Mr. Chachkes) The original question	11:13:59 2	question.
11:12:12 3	is whether you did a comprehensive review of minerals	11:13:59	Did anybody at MAS do a comprehensive
11:12:14 4	other than amphiboles, other than serpentine, to	11:14:01 4	review to determine what I've asked?
11:12:17 5	determine whether there are one-axis SAED diffraction	5	MS. O'DELL: Object
11:12:21 6	patterns that you can't without more axes determine	11:14:05 6	THE WITNESS: You'd have to ask Bill
11:12:25 7	whether it's an amphibole or another class. Did you	11:14:07 7	Longo.
11:12:29	do that?	11:14:07 8	MS. O'DELL: Excuse me.
11:12:29 9	MS. O'DELL: Object to excuse me.	11:14:08 9	THE WITNESS: You'd have to ask Dr. Longo.
11:12:30 10	MR. CHACHKES: Let me finish my question.	11:14:08 10	Q. (By Mr. Chachkes) Okay. Sitting here
11:12:31 11	Q. (By Mr. Chachkes) Did you do such a	11:14:09 11	today you don't know?
11:12:32 12	comprehensive review?	11:14:09 12	MS. O'DELL: Object to form.
11:12:34 13	MS. O'DELL: Objection to form. That	13	THE WITNESS: He could give you that
11:12:35 14	wasn't the previous question. Object to the	14	answer.
11:12:37 15	form.	15	Q. (By Mr. Chachkes) Okay. What about
11:12:37 16	THE WITNESS: Well, I didn't do a	16	you
11:12:39 17	comprehensive review.	17	THE REPORTER: Wait, wait. You're talking
11:12:40 18	Q. (By Mr. Chachkes) Okay. Did anybody do a	18	at the same time.
11:12:41 19	comprehensive review?	19	THE WITNESS: Dr. Longo. Sorry.
11:12:42 20	A. Well	11:14:22 20	Dr. Longo.
11:12:45 21	MS. O'DELL: Object to the form.	11:14:22 21	Q. (By Mr. Chachkes) Okay. But you can't
11:12:46 22	THE WITNESS: understand once again,	11:14:22 22	give me the answer? I have to ask Dr. Longo?
11:12:48 23	understand that there's a huge body of	11:14:26 23	A. I don't know. That's my answer. Ask
11:12:53 24	literature and standard methodologies that are	11:14:29 24	Dr. Longo.
11:12:55 25	used for identifying these classes of minerals.	11:14:29 25	Q. Is there a so there are SAED axes;
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11:13:00 1	It's well known.	1	correct?
11:13:01 2	You don't have to have I mean, you have	11:14:38 2	A. Yes.
11:13:04 3	to have an awareness of that there that there	11:14:38 3	Q . And you can take an SAED image or pattern
11:13:07 4	could be others, but focused in on these types	11:14:44 4	on an axis or off an axis; right?
11:13:10 5	of minerals, you know, there's plenty of data to	11:14:47 5	A. Uh-huh, yes.
11:13:15 6	be able to make a decision based on looking at	11:14:47 6	Q . All right. Is there an off-axis single
11:13:18 7	one plane.	11:14:53 7	SAED diffraction pattern that is signature-only
11:13:20 8	For instance, chrysotile is a good	11:14:57 8	amphiboles?
11:13:22 9	example. You can look at the diffraction	11:14:57 9	A. I would have to review that, but typically
11:13:24 10	pattern and see that it's streaked and right	11:15:07 10	the answer is if you get if you verify the
11:13:27 11	away know that I possibly have this kind of, you	11:15:15 11	spacing, the atomic spacings, at the variance for
11:13:32 12	know, asbestiform mineral, let me look at the	11:15:19 12	each one of the minerals, one of the you know,
11:13:36 13	morphology, oh, it's rolled up like a scroll.	11:15:23 13	asbestiform minerals you know, they're in a group,
11:13:39 14	That's chrysotile. Oh, when I do the EDS, I've	11:15:26 14	there's a range for actually that spacing too, so
11:13:42 15	got practically a 1-to-1 mag-silicon ratio.	11:15:30 15	but if you come within that spacing, then you most
11:13:47 16	Wow. You know, 99 percent sure that this is	11:15:32 16	likely have an amphibole.
11:13:49 17	chrysotile.	11:15:33 17	Q. I wasn't asking you about most likely.
11:13:49 18	Q . (By Mr. Chachkes) The original question	11:15:35 18	I'm asking about conclusive, 100 percent, you know
11:13:51 19	was did anybody at MAS	11:15:38 19	that's an amphibole.
11:13:52 20	A. I answered that.	11:15:39 20	MS. O'DELL: Object to the form.
11:13:53 21	Q . Okay. Let me ask	11:15:40 21	THE WITNESS: I just told you.
11:13:54 22	A. Not to cut you off	11:15:41 22	Q . (By Mr. Chachkes) Okay. You used the
		1 22	
23	Q. You just did cut me off.	11:15:44 23	word most likely. Let me ask you a different way.
11:13:54 24	Q. You just did cut me off.A but I already answered that.	11:15:44 23	word most likely. Let me ask you a different way. A. What I try to answer you keep

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1,,,,,,,,	verify this, which includes morphology, the shape and	196	Q. Okay.
11:15:54 1	form, which includes the chemistry, the EDS, and the	11:18:14 2	A. So you can bring up all the academic
	•		
	SAED required in the standard methods, all right.		professors, and I will dispute, you know, a lot of what they do.
_	These are the things. Each one of them by	_	•
_	themselves, no.	_	Q. Okay. If a supremely complicated
_	Q. Okay. I'm only asking questions. I'm not	_	strike that.
11:16:12 /	telling you what your report is consisting of. I'm not telling you anything. I'm just asking questions.		If a supremely qualified mineralogist and
	, , , , , , , , , , , , , , , , , , , ,	11:18:31 8	SAED expert were to tell you that one of your single
11:16:16 9	So if you could just focus on the question	11:18:34 9	axis diffraction patterns that you identified as
11:16:19 10	A. I'm trying to focus on it, but you keep	11:18:37 10	asbestos can correspond to a nonamphibole on a
11:16:21 11	bringing up things that don't go together. All	11:18:43 11	theoretical basis based on the structure of the
11:16:24 12	right. They don't go together for the analysis.	11:18:45 12	nonamphibole, sitting here today, do you have a
11:16:25 13	Q. Okay. If I were to tell you that a career	11:18:46 13	reason to dispute that?
11:16:36 14	academic mineralogist looked at one of your single	11:18:47 14	MS. O'DELL: Object to the form.
11:16:40 15	axis identifications of an asbestos and said that	11:18:49 15	THE WITNESS: Yes.
11:16:47 16	SAED diffraction pattern can correspond to many	11:18:49 16	Q. (By Mr. Chachkes) Okay. What is that?
11:16:52 17	different minerals, would you have reason to dispute	11:18:50 17	A. I just told you. I'm not going to go
11:16:55 18	that?	11:18:51 18	through the answer all over again.
11:16:55 19	A. No.	11:18:54 19	Q. Okay. That was all practical. I'm now
11:16:56 20	MS. O'DELL: Object to the form.	11:18:56 20	talking about theoretical.
11:16:57 21	Q. (By Mr. Chachkes) Okay. If I brought in	11:18:56 21	A. Same for that one, too. Same answer.
11:16:58 22	that same mineralogist who said this single axis	11:18:57 22	Q. SAED patterns correspond to the lattice of
11:17:02 23	diffraction pattern that you have can correspond to	11:19:02 23	a mineral; correct?
11:17:07 24	some nonamphibole minerals, do you have sitting	11:19:03 24	A. Correct.
11:17:11 25	here today do you have a reason to dispute that?	11:19:03 25	Q. Is there a nonamphibole that has a lattice
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	106		108
11:17:13 1	106 A. Yes.	11:19:09 1	that could possibly give you a single axis
11:17:13 1 11:17:14 2		11:19:09 1 11:19:13 2	
	A. Yes.	_	that could possibly give you a single axis
11:17:14 2	A. Yes.Q. Okay. What is that reason?	11:19:13 2	that could possibly give you a single axis diffraction pattern that looks like an amphibole?
11:17:14 2 11:17:14 3	A. Yes.Q. Okay. What is that reason?A. Well, I would have to see what the what	11:19:13 2 11:19:17 3	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because
11:17:14 2 11:17:14 3 11:17:18 4	 A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. 	11:19:13 2 11:19:17 3 11:19:20 4	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for
11:17:14 2 11:17:14 3 11:17:18 4 11:17:20 5	 A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of 	11:19:13 2 11:19:17 3 11:19:20 4 11:19:24 5	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight
11:17:14 2 11:17:14 3 11:17:18 4 11:17:20 5 11:17:23 6	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their	11:19:13 2 11:19:17 3 11:19:20 4 11:19:24 5 11:19:27 6	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have
11:17:14 2 11:17:14 3 11:17:18 4 11:17:20 5 11:17:23 6 11:17:25 7	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this	11:19:13 2 11:19:17 3 11:19:20 4 11:19:24 5 11:19:27 6 11:19:29 7	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data.
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11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control.	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone?
11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah.
11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their you know, they may have been a professor in this for	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah. Q. Okay. I'm not going to
11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their you know, they may have been a professor in this for who knows how long. How long have they worked in the	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah. Q. Okay. I'm not going to A. Yep.
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11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their you know, they may have been a professor in this for who knows how long. How long have they worked in the laboratory? What's their quality control? What have they done? This is what I want to know. Q. Do you	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah. Q. Okay. I'm not going to A. Yep. Q again. Did I ask whether you can distinguish anthophyllite from talc
11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their you know, they may have been a professor in this for who knows how long. How long have they worked in the laboratory? What's their quality control? What have they done? This is what I want to know. Q. Do you A. The analysts that we have so let me	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah. Q. Okay. I'm not going to A. Yep. Q again. Did I ask whether you can distinguish anthophyllite from talc A. Yes.
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11:17:14	A. Yes. Q. Okay. What is that reason? A. Well, I would have to see what the what they were disputing. I'd have to see the data first. And then I would like to know the qualifications of this expert and I would like to see what their quality control is in order to be able to say this person especially in academia, because academia most of the time doesn't have any kind of quality control. So I look a little bit less on their you know, they may have been a professor in this for who knows how long. How long have they worked in the laboratory? What's their quality control? What have they done? This is what I want to know. Q. Do you A. The analysts that we have so let me answer the question. The analysts we have essentially go through a process where they are tested by NIST NVLAP. Think are tested on a quarterly basis on unknowns that NIST sends to us that we have to identify, okay. So what academic professor does that?	11:19:13	that could possibly give you a single axis diffraction pattern that looks like an amphibole? A. I don't know the answer to that because most of them are they have diffraction data for all these minerals, and there will be slight differences between them. So, you know, I would have to look at the data. Q. Okay. Can you identify okay, I think I already asked did I already ask you if you can identify a particle with SAED alone? A. Yeah. Q. Okay. I'm not going to A. Yep. Q again. Did I ask whether you can distinguish anthophyllite from talc A. Yes. Q SAED alone? A. Yes. Q. Okay. Sorry if I'm A. That's okay. Q. Oh, I know where I am. Can you distinguish anthophyllite from cummingtonite with SAED alone?

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11:20:00	35	097	management that when you management for each one of				
	possibly. Q. When you say possibly, can you be	11:21:55	measured that, when you measure out for each one of				
		11:21:57 2	the sets or wherever it would be, there are				
11:20:04 3	specific?	11:21:59 3	parameters lattice parameters in each one of those				
	A. Again, you'd have to do you'd have to	_	zones, and that would still be tremolite. Q. Okay. If				
11:20:08 5	do zone axis in a couple of different zones to tell, and then you probably can say it's most likely. But	•					
	again, you'd want to do you'd want to do the EDS	_					
	and you'd, of course, look at the form of it, too.		Q. Okay. A. Okay.				
	Q. So how many zone axes would you need if		Q. Are you done?				
11:20:19 9	you only had SAED to rely on to determine whether you	11:22:08 9	A. Yeah.				
11:20:25 11	were looking at anthophyllite or cummingtonite?	11:22:09 11	Q. Okay. If you had an SAED pattern for a				
11:20:28 12	MS. O'DELL: Object to the form.	11:22:11 12	mineral in three separate axes and each one was				
11:20:29 13	THE WITNESS: You could do you could	11:22:11 12	exactly the same, could it possibly be tremolite?				
11:20:31 14	use one. It depends on the pattern that you	11:22:17 14	MS. O'DELL: Object to the form.				
11:20:34 15	see. If it was more of an orthorhombic pattern,	11:22:17 14	THE WITNESS: I don't know.				
11:20:39 16	you know, most likely anthophyllite; if it was	11:22:18 16	Q. (By Mr. Chachkes) Wouldn't that mean it				
11:20:44 17	more a monoclinic pattern, most likely	11:22:18 10	was a symmetric lattice and that tremolite doesn't				
11:20:44 17	cummingtonite.	11:22:20 17	have a symmetric lattice?				
11:20:45 19		11:22:24 10	•				
11:20:45 19	Q. (By Mr. Chachkes) Okay. Let me just show you what was marked yesterday as Exhibit 15.	11:22:27 19	A. Again, I don't know how to answer that question.				
11:20:45 20		11:22:28 20	•				
11:20:55 21	Do you have 15? No. Here it is, I'm sorry. Okay.	11:22:39 21	Q. Are you aware of what the lattice of tremolite looks like?				
11:20:58 22	I'll represent to you what was what's	11:22:30 22	A. Yes. I am. It is monoclinic.				
11:21:01 23	in Exhibit 15 is pulled from a textbook. Do you	11:22:31 23	Q. Okay. Is it perfectly symmetrical in the				
11:21:08 25	recognize that as an SAED pattern in three axes?	11:22:35 24	X, Y, and Z axes?				
11:21:06 23	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	11:22:30 23	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com				
	110		112				
11:21:10 1	A. Yes.	11:22:40 1	A. I don't know. I'd have to look at it.				
11:21:11 2	Q. And is there any reason to believe this is	11:22:42	Q. Okay. We can take a break now, if you				
11:21:12 3	an incorrect three-axes SAED pattern for tremolite?	11:22:51 3	like.				
11:21:16 4	MS. O'DELL: Object to form.	11:22:51 4	A. Do you need a break?				
11:21:17 5	THE WITNESS: I have no idea on that.	11:22:52 5	Q. Yeah.				
11:21:18 6	What was this published in; do you know?	11:22:54 6	A. Sure.				
11:21:20 7	Q. (By Mr. Chachkes) It's not coming to my	11:22:54 7	(Recess from 11:22 a.m. to 11:42 a.m.)				
11:21:21 8	mind right now but	11:42:33	Q. (By Mr. Chachkes) Would you agree with				
11:21:22 9	A. I need to know that.	11:42:52	the statement that the more complete the SAED pattern				
10	Q. Okay.	11:42:56 10	an analyst obtains, the more likely the analyst is to				
11:21:23 11	A. Yep. I can't make any decisions on that	11:43:00 11	make an accurate determination of the crystal				
11:21:26 12	unless I know the surrounding stuff here.	11:43:02 12	structure?				
11:21:27 13	Q. That's fine.	11:43:03 13	A. I don't know what you mean by complete.				
11:21:28 14	A. Yeah.	11:43:08 14	Aside from the definition of the SAED pattern,				
11:21:28 15	Q. Sitting here today, any reason to believe	11:43:16 15	sometimes they can be faint; they can be light. So				
11:21:30 16	this is incorrect?	11:43:21 16	the more defined the pattern is, I would say that				
11:21:31 17	MS. O'DELL: Object to the form.	11:43:24 17	helps.				
11:21:33 18	THE WITNESS: Again	11:43:24 18	Q. Okay. When you say defined, you mean the				
11:21:34 19	MS. O'DELL: He's answered your question.	11:43:26 19	kind of the when you say faint and light, that's				
11:21:36 20	THE WITNESS: Yep. It's hard to tell	11:43:31 20	just a matter of how dark the dot is?				
11:21:38 21	without, you know, knowing where this is from.	11:43:32 21	A. Yeah, well, the diffraction pattern				
11:21:42 22	Q. (By Mr. Chachkes) Okay. Is it your	11:43:34 22	sometimes can be very it can be very faint, so,				
11:21:44 23	understanding that tremolite can have different SAED	11:43:38 23	you know, it just depends. So the more defined the				
11:21:48 24	patterns in the three different axes?	11:43:43 24	pattern is, the better.				
1 _		25	O What about the many forward the matter				
11:21:52 25	A. Again, it could. But once again, when you	11:43:43 25	Q. What about the more focused the pattern,				

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11:43:46 1	the better?	11:46:12 1	calculations on what the gold lattice parameters are,
11:43:47 2	A. Again, the pattern is usually going to be	11:46:17 2	and then they will compare that to the unknown using
11:43:52 3	focused properly when the microscope is set up	11:46:21 3	that particular configuration.
11:43:55 4	properly, you're going to get a good defined pattern.	11:46:23	Q. Okay. Sometimes you say diffraction
11:43:58 5	So it's mainly the ability to see all the spots there	11:46:27 5	pattern, and just to be clear
11:44:04 6	associated with that particular zone.	6	A. Sure.
11:44:06 7	Q. If you get a SAED pattern where the dots	11:46:29 7	Q diffraction pattern, you're being
11:44:09 8	are unfocused, can that hamper the ability to	11:46:32	synonymous with SAED?
11:44:14 9	identify the crystal?	11:46:34	A. Yes.
11:44:15 10	MS. O'DELL: Object to the form.	11:46:34 10	Q. And how do your analysts determine when
11:44:16 11	THE WITNESS: The answer to that is no.	11:46:38 11	it's appropriate to take multiple axes for a single
11:44:18 12			sample under SAED?
11:44:21 13	•		A. That's a good question. Typically we'll
11:44:23 14			do that for anthophyllite to verify that it is
11:44:24 15	But if you see a very diffuse pattern,	11:46:46 14 11:46:50 15	anthophyllite. We'll take multiples on that.
11:44:28 16	then you may have what's more like an amorphous,	11:46:52 16	It's not required in the standard method
11:44:31 17	not a very crystalline material, and you'll see	11:46:55 17	to do that because typically you can do it in one
11:44:34 18	that in rings.	11:46:58 18	zone for the amphiboles. But to show that it's not
11:44:35 19	Q. (By Mr. Chachkes) Are there instances	11:47:04 19	fibrous talc versus anthophyllite, you're essentially
11:44:36 20	where you are unable to obtain a clear SAED pattern	11:47:08 20	going to take another one to verify it.
11:44:40 21	so your data in that scenario is inconclusive?	11:47:10 21	Q. Okay. For tremolite, you take one axis?
11:44:44 22	MS. O'DELL: Object to the form.	11:47:12 22	A. Yes, you can.
11:44:45 23	THE WITNESS: You will work to get the	11:47:13 23	Q. Okay. Not what I'm not asking about
11:44:51 24	best pattern that you can out of the structure	11:47:15 24	what you can do. So let me put it
11:44:51 24	that you have, so the answer to that is you	11:47:15 24	A. Yes.
11:44:52 23	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	11:47:17 23	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	Atlanta Reporters, inc. 000-544-0455 www.atlanta-reporters.com		Adama Reporters, inc. 000-044-0405 www.adama-reporters.com
	444		446
1	114	_	116
11:44:54 1	won't use a pattern that's not acceptable.	1	Q . Okay.
11:44:57 2	won't use a pattern that's not acceptable. Q . (By Mr. Chachkes) Right. The question	11:47:18 2	Q. Okay.A. The answer's yes.
11:44:57 2 11:44:58 3	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a	11:47:18 2 11:47:19 3	Q. Okay.A. The answer's yes.Q. Okay. There are no SAED patterns that you
11:44:57 2 11:44:58 3 11:45:01 4	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question.	11:47:18 2 11:47:19 3 11:47:23 4	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced;
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay.	11:47:18 2 11:47:19 3 11:47:23 4 5	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct?
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct.
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6 11:45:04 7	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6 11:45:04 7 11:45:09 8	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear SAED pattern and so the SAED was inconclusive?	11:47:18 2 11:47:19 3 11:47:23 4 5 11:47:25 6 11:47:26 7 11:47:29 8	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the tremolite, meaning can I conclude that you've only
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6 11:45:04 7 11:45:09 8 11:45:12 9	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear SAED pattern and so the SAED was inconclusive? MS. O'DELL: Object to the form.	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the tremolite, meaning can I conclude that you've only taken one SAED pattern for the tremolites?
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6 11:45:04 7 11:45:09 8 11:45:12 9 11:45:13 10	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear SAED pattern and so the SAED was inconclusive? MS. O'DELL: Object to the form. THE WITNESS: I don't know of any, no.	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the tremolite, meaning can I conclude that you've only taken one SAED pattern for the tremolites? A. I would say yes to that.
11:44:57 2 11:44:58 3 11:45:01 4 11:45:01 5 11:45:02 6 11:45:04 7 11:45:09 8 11:45:13 10 11:45:14 11	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear SAED pattern and so the SAED was inconclusive? MS. O'DELL: Object to the form. THE WITNESS: I don't know of any, no. Q. (By Mr. Chachkes) Analysts can use the	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the tremolite, meaning can I conclude that you've only taken one SAED pattern for the tremolites? A. I would say yes to that. Q. Okay. And I'm seeing two SAED patterns
11:44:57	won't use a pattern that's not acceptable. Q. (By Mr. Chachkes) Right. The question isn't about so the question is let me ask a different question. A. Okay. Q. In doing the MDL samples, did you ever run across a case where you were unable to obtain a clear SAED pattern and so the SAED was inconclusive? MS. O'DELL: Object to the form. THE WITNESS: I don't know of any, no. Q. (By Mr. Chachkes) Analysts can use the information obtained from SAED to make distinctions	11:47:18	 Q. Okay. A. The answer's yes. Q. Okay. There are no SAED patterns that you created for the MDL samples that weren't produced; correct? A. Correct. Q. And I'm seeing one SAED pattern for the tremolite, meaning can I conclude that you've only taken one SAED pattern for the tremolites? A. I would say yes to that. Q. Okay. And I'm seeing two SAED patterns for anthophyllite. Is it okay for me to conclude
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		:16-md-02738-MAS-RLS Document 9	100-9	Filed 05/07/19 Page 31 of 59 PageID: 119
11:48:27	the diffi	raction pattern. They verify that it is, in	11:50:18 1	
11:48:31	fact, whatever it was called before.		11:50:23	
11:48:33	Q.	Yeah, I see that do you see the date	11:50:28	
11:48:37 4	•	down there in the lower left?	11:50:34	
11:48:39 5	A.	Which one are we looking at? Page 1?	11:50:38	
11:48:40 6	Q.	Let's look at the first page of that	11:50:38	<u> </u>
7	A.	Okay.	11:50:40 7	single amphibole on that list; right?
11:48:42	Q.	that you actually see a verification.	11:50:43	
11:48:44		ot all of the verifications are after the	11:50:43	
11:48:47 10		your first report; is that correct?	11:50:46 10	
11:48:51 11	uute or ,	MS. O'DELL: At least on this page?	11:50:48 11	
12		THE WITNESS: Yeah.	11:50:49 12	
11:48:53 13		MR. CHACHKES: Well, it's a question.	11:50:52 13	· - ·
11:48:54 14		THE WITNESS: I would think what's the	11:50:56 14	•
11:48:55 15			11:50:59 15	-
11:48:56 16	Q.	(By Mr. Chachkes) The question is were	11:51:02 16	
11:48:56 17	•	not all of your verifications for the MDL	11:51:02 17	
11:48:56 17		done after the date of your first report,	11:51:03 17	
11:49:02 19	•	as October 14?	11:51:05 10	sample into the electron microscope.
11:49:02 19	A.	I don't know. I'd have to look at these	11:51:08 19	
11:49:03 20		npare that to that date.	11:51:10 20	, .
11:49:05 21			11:51:13 21	·
	Q.	Okay. This verification, for example, was		
11:49:13 23		er the date of your first report; correct?	11:51:22 23	
11:49:16 24	Α.	Yes.	11:51:24 24	• • • • • • • • • • • • • • • • • • • •
11:49:16 25	Q.	Okay. And you're	11:51:27 25	
	Atlanta Re	eporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
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	_	Annual to the transfer of the Albertain Community		MC OIDELL Object to the forms
11:49:18 1	A.	Are you talking about the November report?	11:51:27	
11:49:19 2	Q.	November 14	11:51:28 2	THE WITNESS: Well, I mean, it's within
11:49:19 2 11:49:20 3	Q. A.	November 14 Yes.	11:51:28 2 11:51:29 3	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't
11:49:19 2 11:49:20 3 11:49:20 4	Q. A. Q.	November 14 Yes I'm saying that's the first report.	11:51:28 2 11:51:29 3 11:51:32 4	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to
11:49:20 3 11:49:20 4 11:49:21 5	Q. A. Q. A.	November 14 Yes I'm saying that's the first report. Sure.	11:51:28 2 11:51:29 3 11:51:32 4 11:51:35 5	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite.
11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6	Q. A. Q. A. Q.	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already	11:51:28 2 11:51:29 3 11:51:32 4 11:51:35 5 11:51:38 6	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it;
11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6 11:49:25 7	Q. A. Q. A. Q. determin	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already ned by October 14 that this sample on the	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is.
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11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6 11:49:25 7 11:49:29 8 11:49:37 9 11:49:44 10 11:49:46 11 11:49:47 12	Q. A. Q. determine first page had done A. already Q.	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already need by October 14 that this sample on the ecorresponded to anthophyllite before you ee the verification; correct? Well, the answer to that is yes, we had determined it was anthophyllite. Okay. And so the verification's, what,	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is. So yeah. Q. (By Mr. Chachkes) Yeah, you would not use EDS d-spacing alone to determine the mineral you're looking at because it falls under too many different minerals; correct?
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11:49:19	Q. A. Q. determin first page had done A. already Q. kind of a A. follo	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already need by October 14 that this sample on the ecorresponded to anthophyllite before you at the verification; correct? Well, the answer to that is yes, we had determined it was anthophyllite. Okay. And so the verification's, what, belt and suspenders? Sure. MS. O'DELL: Object to the form. THE WITNESS: Well, I mean, it's a new-up. (By Mr. Chachkes) Okay. And I see that a range in the table of amphibole types up the top; do you see that? Yes.	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is. So yeah. Q. (By Mr. Chachkes) Yeah, you would not use EDS d-spacing alone to determine the mineral you're looking at because it falls under too many different minerals; correct? MS. O'DELL: Object to the form. THE WITNESS: It tells you that it is an amphibole, that it is in that range. And again, we do let's see. There should be another one here of the same one. Let's see. Number 301 01. If you go to the next page, you'll see this is the same structure again, same structure again, the second verification. Down here you'll see the zone, it
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11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6 11:49:25 7 11:49:29 8 11:49:44 10 11:49:44 11 11:49:47 12 11:49:49 13 11:49:51 14 11:49:51 15 11:49:52 16 11:49:54 17 11:49:54 18 11:49:54 18 11:49:54 19 11:50:02 20 11:50:04 21 11:50:04 22 11:50:07 23	Q. A. Q. determin first page had done A. already Q. kind of a A. follo Q. there's a there at A. Q. A.	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already need by October 14 that this sample on the ecorresponded to anthophyllite before you ee the verification; correct? Well, the answer to that is yes, we had determined it was anthophyllite. Okay. And so the verification's, what, belt and suspenders? Sure. MS. O'DELL: Object to the form. THE WITNESS: Well, I mean, it's a low-up. (By Mr. Chachkes) Okay. And I see that range in the table of amphibole types up the top; do you see that? Yes. What does the range column mean? That is the actual atomic spacing for that	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is. So yeah. Q. (By Mr. Chachkes) Yeah, you would not use EDS d-spacing alone to determine the mineral you're looking at because it falls under too many different minerals; correct? MS. O'DELL: Object to the form. THE WITNESS: It tells you that it is an amphibole, that it is in that range. And again, we do let's see. There should be another one here of the same one. Let's see. Number 301 01. If you go to the next page, you'll see this is the same structure again, same structure again, the second verification. Down here you'll see the zone, it was a 101, and the d-spacing for that zone are shown there for each one of the angles you
11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6 11:49:25 7 11:49:29 8 11:49:37 9 11:49:44 10 11:49:46 11 11:49:47 12 11:49:47 13 11:49:51 15 11:49:51 15 11:49:52 16 11:49:54 17 11:49:54 18 11:49:54 18 11:49:54 19 11:50:02 20 11:50:04 21 11:50:07 23 11:50:01 24	Q. A. Q. determin first page had done A. already Q. kind of a A. follo Q. there's a there at A. Q. A. lattice p	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already need by October 14 that this sample on the ecorresponded to anthophyllite before you at the verification; correct? Well, the answer to that is yes, we had determined it was anthophyllite. Okay. And so the verification's, what, belt and suspenders? Sure. MS. O'DELL: Object to the form. THE WITNESS: Well, I mean, it's a new-up. (By Mr. Chachkes) Okay. And I see that range in the table of amphibole types up the top; do you see that? Yes. What does the range column mean? That is the actual atomic spacing for that parameter. And, for instance, if you take	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is. So yeah. Q. (By Mr. Chachkes) Yeah, you would not use EDS d-spacing alone to determine the mineral you're looking at because it falls under too many different minerals; correct? MS. O'DELL: Object to the form. THE WITNESS: It tells you that it is an amphibole, that it is in that range. And again, we do let's see. There should be another one here of the same one. Let's see. Number 301 01. If you go to the next page, you'll see this is the same structure again, same structure again, the second verification. Down here you'll see the zone, it was a 101, and the d-spacing for that zone are shown there for each one of the angles you know, each one of the lattice parameters, and
11:49:19 2 11:49:20 3 11:49:20 4 11:49:21 5 11:49:22 6 11:49:25 7 11:49:29 8 11:49:44 10 11:49:44 11 11:49:47 12 11:49:49 13 11:49:51 14 11:49:51 15 11:49:52 16 11:49:54 17 11:49:54 18 11:49:54 18 11:49:54 19 11:50:02 20 11:50:04 21 11:50:04 22 11:50:07 23	Q. A. Q. determin first page had done A. already Q. kind of a A. follo Q. there's a there at A. Q. A. lattice p	November 14 Yes I'm saying that's the first report. Sure. So at the very least, you had already need by October 14 that this sample on the ecorresponded to anthophyllite before you ee the verification; correct? Well, the answer to that is yes, we had determined it was anthophyllite. Okay. And so the verification's, what, belt and suspenders? Sure. MS. O'DELL: Object to the form. THE WITNESS: Well, I mean, it's a low-up. (By Mr. Chachkes) Okay. And I see that range in the table of amphibole types up the top; do you see that? Yes. What does the range column mean? That is the actual atomic spacing for that	11:51:28	THE WITNESS: Well, I mean, it's within the range there. Again, this is why you can't just use the one method to say, oh, I'm going to use SAED and say that it is anthophyllite. You've got to go look at the form of it; you've got to go do the EDS to prove that it is. So yeah. Q. (By Mr. Chachkes) Yeah, you would not use EDS d-spacing alone to determine the mineral you're looking at because it falls under too many different minerals; correct? MS. O'DELL: Object to the form. THE WITNESS: It tells you that it is an amphibole, that it is in that range. And again, we do let's see. There should be another one here of the same one. Let's see. Number 301 01. If you go to the next page, you'll see this is the same structure again, same structure again, the second verification. Down here you'll see the zone, it was a 101, and the d-spacing for that zone are shown there for each one of the angles you know, each one of the lattice parameters, and

	Case 3:16-md-02738-MAS-RLS Document		Filed 05/07/19 Page 32 of 59 PageID:
11:52:34	looking at the table, the spacing table. So	5100 11:54:47 1	of 21.2 in that range?
11:52:37	then we look at the EDS, the EDS confirms again	11:54:49 2	A. I can't tell you that as I sit here.
11:52:40 3	the chemistry. So, you know, it's dead to right	11:54:51 3	Q. Okay. Does the verification have you
11:52:45 4	anthophyllite.	11:55:04 4	ever done a verification and the spacing fell outside
11:52:46 5	Q. (By Mr. Chachkes) So you're just looking	11:55:07 5	the range of what you had already identified?
11:52:47 6	at so I see the spacing here is 21.2?	11:55:09 6	A. I don't know the answer to that.
11:52:50 7	A. Right. Now that's in this zone is 101	11:55:10 7	Q. Did that happen for the MDL at all? You
11:52:54	zone.	11:55:13	just don't know?
11:52:55 9	Q. Okay.	11:55:14	A. I don't know.
11:52:56 10	A. Okay. That is what it would be in the 101	11:55:14 10	MS. O'DELL: Object to the form.
11:52:58 11	zone.	11:55:15 11	THE WITNESS: Yeah, I don't know.
11:52:58 12	Q. And you don't have ranges for the 101	11:55:16 12	Q. (By Mr. Chachkes) If it happened, you
11:53:01 13	zone, do you?	11:55:18 13	would have reported it; right?
11:53:02 14	A. Well, there are tables for the ranges in	11:55:19 14	A. Well, yes. I would think so, yes.
11:53:03 15	the 101 zone. We don't have one right here	11:55:21 15	Q. Did you do any of these d-spacing
16	Q. Okay.	11:55:30 16	verifications prior to the first draft, the
11:53:07 17	A but there are table ranges for that.	11:55:33 17	November 14 version of your report?
11:53:09 18	Q. When you say so for this table on the	11:55:35 18	A. I
11:53:12 19	second page of the second verification, are you	11:55:36 19	MS. O'DELL: Feel free to look through it
11:53:16 20	looking at the 5.05 down at the bottom?	11:55:37 20	if you need to. Look at the dates.
11:53:19 21	A. Yes.	11:55:39 21	THE WITNESS: Let's see what we've got
11:53:19 22	Q. Okay. That 5.05 falls within every single	11:55:40 22	here. Yeah, it looks like a few. Some of them
11:53:23 23	amphibole type in your table as well?	11:55:47 23	were here. Get towards the back. They were
11:53:26 24	A. No, no. It's a combination of the HKO,	11:55:49 24	done in October.
11:53:29 25	the HKL, the zone that you're in what the angle is.	11:55:52 25	It looks like about half of them; half of
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11:53:32 1		11:55:54 1	•
11:53:32 1 11:53:35 2	122	11:55:54 1 11:55:56 2	them were done before that first report. Q. (By Mr. Chachkes) Can I conclude because
	There are tables for these. You know what I'm saying? We had talked about that a little bit before. There are tables for these. And in each one	11:55:56 2 11:56:00 3	them were done before that first report. Q. (By Mr. Chachkes) Can I conclude because some were done after and some were done before the
11:53:35 2	There are tables for these. You know what I'm saying? We had talked about that a little bit before. There are tables for these. And in each one of the zones there are spacings, spacing tables, and	11:55:56 2 11:56:00 3	them were done before that first report. Q. (By Mr. Chachkes) Can I conclude because some were done after and some were done before the first report, it wasn't material to your findings in
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11:53:35 2 11:53:37 3 11:53:41 4	There are tables for these. You know what I'm saying? We had talked about that a little bit before. There are tables for these. And in each one of the zones there are spacings, spacing tables, and these fit in the anthophyllite zone. Q. When you say these, do you mean the 101	11:55:56 2 11:56:00 3 11:56:02 4 11:56:05 5 11:56:07 6	them were done before that first report. Q. (By Mr. Chachkes) Can I conclude because some were done after and some were done before the first report, it wasn't material to your findings in the first report? MS. O'DELL: Object to the form.
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11:53:35	There are tables for these. You know what I'm saying? We had talked about that a little bit before. There are tables for these. And in each one of the zones there are spacings, spacing tables, and these fit in the anthophyllite zone. Q. When you say these, do you mean the 101 spacing of 21.2? A. Well, yes. Q. Okay. And that table's not reproduced in this page; correct? A. No, it's not here. Q. So in the peer-reviewed literature I would find that a 101 zone spacing of 21.2 will correspond uniquely to anthophyllite? A. The answer to that is yes. Q. Okay. Can you tell me what peer-reviewed literature? A. Let's see. There's a large body of card data, diffraction card data, and again, there are zone tables in that data, and that's where it comes from. That's why we do the that's why we do the double verification on anthophyllite, you know, because it doesn't fit with talc.	11:55:56	them were done before that first report. Q. (By Mr. Chachkes) Can I conclude because some were done after and some were done before the first report, it wasn't material to your findings in the first report? MS. O'DELL: Object to the form. THE WITNESS: Are you saying the ones that are after that are not material? What's the question? Q. (By Mr. Chachkes) No. So clearly before at the time of your first report there were MDL samples on which you had not done a d-spacing verification; correct? A. No, we did the verification. I mean, we did I mean, you have to understand it was called at the time based on the data that we had for that pattern, that chemistry, that morphology. So again, I would say that they all have been verified prior to that. Q. Okay. So I want to make sure we're clear here. A. Sure. Q. So going back to the first verification, I

	Case 3:	16-md-02738-MAS-RLS Document 9	733-9	Filed	05/07/19 Page 33 of 59 PageID:
_	_	125 35.	101		· - ·
11:56:57	Q.	You're saying there was another		_	A. That was a tremolite, yes.
11:56:59 2	verificati	on prior to November 14?	11:58:23		Q. And it was verified after the date of the
11:57:01 3	A.	Sure.	11:58:25	3 first r	report; correct?
4	Q.	And you did	11:58:26	4 <i>A</i>	A. 11/19/2018. What is the date of the fir
11:57:01 5	A.	The actual analysis, when it was actually	11:58:31	5 repo	rt?
11:57:03 6	done.		11:58:33	6	MS. O'DELL: 11/14.
11:57:03 7		MR. CHACHKES: Okay. So we would actually	11:58:33	7 (Q. (By Mr. Chachkes) 11/14.
11:57:06	requ	lest that that other data be produced.	11:58:34	B A	A. 14. Okay. Yeah.
11:57:08 9		MS. O'DELL: It's been produced.	11:58:34	9 (2. So that was verified after the date of the
11:57:09 10		THE WITNESS: You already have it. It's	11:58:37	0 first r	report; correct?
11:57:10 11	all ir	n the reports.	11:58:38 1	1 4	A. Uh-huh.
11:57:11 12	Q.	(By Mr. Chachkes) Okay.	11:58:38	2 (Q. That means that as of the date of the
11:57:12 13	A.	Yeah.	11:58:40 13	3 first r	report it had not been verified?
11:57:12 14	Q.	So was there a why did you redo it on	11:58:41	4	MS. O'DELL: Objection to form.
11:57:16 15	11/19?		11:58:43	5	MS. PARFITT: Objection.
11:57:17 16	A.	It's just part of our quality control. We	11:58:44	6	THE WITNESS: Well, let's back up just a
11:57:20 17	eventua	ally have to do it as part of quality.	11:58:45	7 s	second. The actual date of the photo, okay, the
11:57:22 18	Q.	So every single d-spacing that you did,	11:58:48		diffraction photo, was 10/26/2018, okay. So it
11:57:25 19	you did t		11:58:52		actually was done before that.
11:57:26 20	, A.	If it was anthophyllite, yeah.	11:58:54 20	_	Q. (By Mr. Chachkes) The photo was taken
11:57:28 21	Q.	Okay. So the tremolites were all done	11:58:55 2'		A. The photo was taken, okay, and that's th
11:57:34 22		e just I'm looking at a page for tremolite	11:58:58 22		. The photo is the data. So regardless of thi
11:57:37 23		ne verification is 11/19.	11:59:02 23		t here, all right, that is the pattern, and
11:57:41 24	Α.	Okay. I mean, we've got anthophyllites	11:59:06 24	_	s what it was.
11:57:45 25		re double-verified before that report also	11:59:10 2	_	Q. You know what I'm talking about; right?
11.57.45		eporters, Inc.866-344-0459 www.atlanta-reporters.com	11.33.10		a Reporters, Inc.866-344-0459 www.atlanta-reporters.coi
	, tianta i t	126		7 taarit	128
4		120			120
11157.40	that wa	s on 10/31/2018		1 /	Yeah Tknow what you mean
11:57:48 1		s on 10/31/2018.			A. Yeah, I know what you mean.
11:57:51 2	Q.	Right.	:	2 (Q. The actual
11:57:51 2 11:57:51 3	Q. A.		;	2 (3 A	Q. The actual A. I get that.
11:57:51 2 11:57:51 3 11:57:53 4	Q. A. report.	Right. There are a number of them here in the	11:59:13	2 0 3 A 4	A. I get that. MS. O'DELL: Let him finish.
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5	Q. A. report. Q.	Right. There are a number of them here in the So	11:59:13	2 0 3 4 4 5 0	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish.
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5 11:57:54 6	Q. A. report. Q. A.	Right. There are a number of them here in the So Numerous.	11:59:13	2 (3 3 A 4 5 (6 A	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish. A. Okay.
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5 11:57:54 6 11:57:55 7	Q. A. report. Q. A. Q.	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were	11:59:13 4 11:59:13 4 11:59:14	2 G 3 A 4 5 G 6 A 7 G	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish. A. Okay. Taking the photo and turning it into
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5 11:57:54 6 11:57:55 7 11:57:57 8	Q. A. report. Q. A.	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were verified?	11:59:13 11:59:13 11:59:14 11:59:16	2 0 3 4 4 5 0 6 4 7 0 8 usefu	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish. A. Okay. Q. Taking the photo and turning it into
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5 11:57:54 6 11:57:55 7 11:57:57 8 11:57:58 9	Q. A. report. Q. A. Q.	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were reified? MS. O'DELL: Object to the form.	11:59:13 11:59:13 11:59:14 11:59:16 11:59:17	2	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish. A. Okay. Q. Taking the photo and turning it into all data in a verification that gives you acing, you didn't do that until after the report?
11:57:51 2 11:57:51 3 11:57:53 4 11:57:53 5 11:57:54 6 11:57:55 7 11:57:57 8 11:57:57 8 11:57:58 9 11:57:58 10	Q. A. report. Q. A. Q. double-v	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were rerified? MS. O'DELL: Object to the form. THE WITNESS: No, I don't think the	11:59:13 11:59:13 11:59:14 11:59:16 11:59:17 11:59:19	2	A. I get that. MS. O'DELL: Let him finish. Q. (By Mr. Chachkes) Let me just finish. A. Okay. Q. Taking the photo and turning it into all data in a verification that gives you acing, you didn't do that until after the report? MS. O'DELL: Object to form.
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11:57:51	Q. A. report. Q. A. Q. double-v. tren Q. A. Q. page nun A. Q. A. Q.	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were rerified? MS. O'DELL: Object to the form. THE WITNESS: No, I don't think the molites were. The anthophyllites are. (By Mr. Chachkes) Okay. Yes. I can show you. I just don't have the mbers. Okay. If you look at that one All right. in the exhibit MS. O'DELL: So let's be clear on the ord. Is there a sample number (By Mr. Chachkes) You say the sample	11:59:13 11:59:14 11:59:14 11:59:16 11:59:19 11:59:20 11:59:25 11:59:25 11:59:28 11:59:33 11:59:37 11:59:39 11:59:34 22 11:59:41 22	2	A. I get that. MS. O'DELL: Let him finish. A. Okay. C. Taking the photo and turning it into all data in a verification that gives you acing, you didn't do that until after the report? MS. O'DELL: Object to form. THE WITNESS: Well, again, I would have to consult with the laboratory to see, you know, what actually was done here. But the data existed before the report was done. C. (By Mr. Chachkes) That's not my question. A. I understand that. But understand that already verified prior to that or wouldn't have dup in the report as tremolite. C. Was it verified with d-spacing prior to eport at 11/14? A. I would have to check on that, but to my yieledge, it would be, yeah.
11:57:51	Q. A. report. Q. A. Q. double-v tren Q. A. Q. page nur A. Q. A. Q. number.	Right. There are a number of them here in the So Numerous. You're saying some of the tremolites were verified? MS. O'DELL: Object to the form. THE WITNESS: No, I don't think the nolites were. The anthophyllites are. (By Mr. Chachkes) Okay. Yes. I can show you. I just don't have the mbers. Okay. If you look at that one All right. in the exhibit MS. O'DELL: So let's be clear on the ord. Is there a sample number (By Mr. Chachkes) You say the sample What's the sample number for that one?	11:59:13 11:59:13 11:59:14 11:59:16 11:59:17 11:59:19 11:59:20 11:59:21 11:59:25 11:59:27 11:59:28 11:59:29 11:59:37 11:59:37 11:59:39 11:59:34 11:59:44 2:	2	A. I get that. MS. O'DELL: Let him finish. A. Okay. D. Taking the photo and turning it into all data in a verification that gives you acing, you didn't do that until after the report? MS. O'DELL: Object to form. THE WITNESS: Well, again, I would have to consult with the laboratory to see, you know, what actually was done here. But the data existed before the report was done. D. (By Mr. Chachkes) That's not my question. A. I understand that. But understand that already verified prior to that or wouldn't have to dup in the report as tremolite. D. Was it verified with d-spacing prior to eport at 11/14? A. I would have to check on that, but to my yiedge, it would be, yeah. D. Okay. So this would be a second d-spacing

	Case 5.	129 2	7 33-)	Hea US	/07/19 Page 34 of 59 PageID:
11.50.50 1		THE WITNESS: Yes.	102	1		MS. O'DELL: And it's M68503-028?
11:59:50 1	Q.	(By Mr. Chachkes) Okay.	12:02:05	2		MR. CHACHKES: -028, correct.
11:59:50 2	Q. A.	Yes.	12:02:10	3		THE WITNESS: What's the decade?
	Q.	When you did the first one strike that.		4	Q.	(By Mr. Chachkes) I'm told the '70s.
11:59:52 4	Q. A.	•	12:02:19	5		,
		Okay.	12:02:38	6	Α.	Let's see what it says here 03
7	Q.	D-spacing's important to determining		_		MS. O'DELL: Is that it?
12:00:03		you're accurately identifying a mineral using	12:02:39	7	:-	THE WITNESS: Should be section 8 you
12:00:08	diffractio	on patterns?	12:02:41	8		028? It should be section well, it's
12:00:11 9		MS. O'DELL: Objection to form.	12:02:44	9		ion 8 in ours. I'm not sure what it is in
12:00:12 10		THE WITNESS: It's part of the standard	12:02:47		here	
12:00:13 11		hodology.	12:02:50			MS. O'DELL: Here we go.
12:00:14 12	Q.	(By Mr. Chachkes) Is it an important	12:02:51			THE WITNESS: Section 8. Okay. There we
12:00:15 13	part?		12:03:07		go.	
12:00:15 14		MS. O'DELL: Objection to form.	12:03:08		Q.	(By Mr. Chachkes) Okay. Are you there?
12:00:16 15		THE WITNESS: Well, I would think that if	12:03:11		A.	Yes.
12:00:17 16		wanted the answer that, again, is it part of	12:03:11		Q.	Okay. So it's anthophyllite, so you would
12:00:22 17	the	methodology, a lot of standards use that, so	12:03:13		•	vo diffraction patterns; correct? Can you
12:00:25 18	yes.		12:03:19	18	see two	diffraction patterns?
12:00:26 19	Q.	(By Mr. Chachkes) Okay. Your methodology	12:03:21	19	Α.	In this, there may be just one here.
12:00:29 20	of that	t you've described today for how you did	12:03:24		There m	ay be two on the verification, but let's see
12:00:33 21	SAED	strike that.	12:03:26	21	if there	is. Let's see.
12:00:37 22	A.	Good.	12:03:31	22		41391. Yes. There's two of them.
12:00:37 23	Q.	Let's look at a specific section from your	12:03:32	23	Q.	Why did you say there may be just one?
12:00:44 24	report. /	And so you yes.	12:03:34	24	A.	Oh, well, I was thinking the I was
12:00:53 25		This is sample M68503-208 go slow	12:03:37	25	thinking	anything else but anthophyllite. But
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com				Atlanta Re	eporters, Inc. 866-344-0459 www.atlanta-reporters.com
		130				132
12:01:00 1	here	130 028. Sorry. It's page 585 of the version	12:03:40	1	they're	132 both here.
12:01:00 1 12:01:07 2			12:03:40 12:03:41	1 2	they're Q.	
	of the Ja	028. Sorry. It's page 585 of the version		_	Q.	both here.
12:01:07 2	of the Ja	028. Sorry. It's page 585 of the version nuary 15 report that was produced to us.	12:03:41	2	Q.	both here. So for anthophyllite you always expect two
12:01:07 2 12:01:12 3	of the Ja And plair	028. Sorry. It's page 585 of the version nuary 15 report that was produced to us. ntiffs' counsel	12:03:41 12:03:43	2 3 4	Q . patterns	both here. So for anthophyllite you always expect two in your report; correct?
12:01:07 2 12:01:12 3 12:01:13 4	of the Ja And plair	028. Sorry. It's page 585 of the version nuary 15 report that was produced to us. ntiffs' counsel MS. O'DELL: I didn't catch that number.	12:03:41 12:03:43 12:03:45	2 3 4 5	Q. patterns A. Q.	both here. So for anthophyllite you always expect two in your report; correct? There should be, yes.
12:01:07 2 12:01:12 3 12:01:13 4 12:01:15 5	of the Ja And plair	028. Sorry. It's page 585 of the version nuary 15 report that was produced to us. ntiffs' counsel MS. O'DELL: I didn't catch that number. use me. What was it?	12:03:41 12:03:43 12:03:45 12:03:45	2 3 4 5	Q. patterns A. Q. patterns,	So for anthophyllite you always expect two in your report; correct? There should be, yes. Okay. Now, looking at these diffraction
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12:01:07 2 12:01:12 3 12:01:13 4 12:01:15 5 12:01:16 6 12:01:23 7	of the Ja And plair Excu	028. Sorry. It's page 585 of the version nuary 15 report that was produced to us. ntiffs' counsel MS. O'DELL: I didn't catch that number. use me. What was it? MR. CHACHKES: It was M68503-028. MS. O'DELL: What's the page of the	12:03:41 12:03:43 12:03:45 12:03:45 12:03:49 12:03:54	2 3 4 5 6 7 8	Q. patterns A. Q. patterns, we're loo	So for anthophyllite you always expect two in your report; correct? There should be, yes. Okay. Now, looking at these diffraction is there for this single sample that king at, can you use just those diffraction to tell whether or not it's cummingtonite as
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	Case 3:16-md-02738-MAS-RLS Document 9733-9 Filed 05/07/19 Page 35 of 59 PageID:						
1	A. What	103 12:07:36 1	the standards that you look at, the aspect ratio				
12:05:00 2	Q. You said no to my question.	12:07:41 2	is if you're talking OSHA, the aspect ratio is				
12:05:01 3	A. What was the question again?	12:07:44 3	3-to-1. If you're talking AHERA, EPA, the aspect				
12:05:02 4	Q. Can you tell whether from just the EDS	12:07:44	ratio is 5-to-1. If you're talking ISO, the ratio is				
12:05:06 5	patterns whether this is cummingtonite or	12:07:48 5	5-to-1. If you're talking ASTM, the ratio is 5-to-1.				
6	anthophyllite?		So we go by 5-to-1, yeah.				
_	A. Well, again, the answer is still no.	_	Q. Am I correct in concluding that every time				
	Q. I'm sorry, let me ask the question again		in your expert report you use the word asbestos or				
	because I'm told by my associate that I misspoke.		asbestiform, you're among the other qualifications				
12:05:18 9 12:05:23 10	Can you tell from the diffraction patterns	12:08:06 9 12:08:11 10	you said it's got at least a 5-to-1 ratio?				
12:05:23 10	alone for sample M68503-028 whether this is	12:08:11 10	,				
	·		A. It should, yes.				
12:05:37 12	anthophyllite or cummingtonite?	12:08:14 12	Q. Okay. What about at least a 3-to-1 ratio?				
12:05:39 13	A. I think I just answered that twice.		A. And again, that's an OSHA. We're looking				
12:05:41 14	Q. Okay. And the answer was no?	12:08:20 14	at 5-to-1. OSHA will call it at that. They will				
12:05:42 15	A. Yeah. I mean, it appears to be an	12:08:25 15	call it asbestos at that ratio.				
12:05:44 16	orthorhombic pattern.	12:08:29 16	So but in all of our reporting we're at				
12:05:47 17	Q. Okay. What is the definition of	12:08:33 17	5-to-1. So we do see 3-to-1 structures, and as far				
12:05:53 18	asbestiform?	12:08:39 18	as the body's concerned, it's going to treat the				
12:05:54 19	A. Well, it actually means asbestos-like,	12:08:41 19	3-to-1 to 5-to-1 probably in the same manner. So				
12:05:59 20	that's what the word means, like asbestos.	12:08:46 20	I've always testified that way. The structures that				
12:06:01 21	Q. So what is asbestos?	12:08:49 21	it encounters, regardless of the aspect ratio, have				
12:06:03 22	A. Well, the classic definition of	12:08:53 22	to be dealt with in the body.				
12:06:09 23	23 asbestiform would be a structure that is 1/2 a micron		Q . For the purposes of your report, did you				
12:06:13 24	24 in size with substantially parallel sides. Some		count a 3-to-1 as a fiber, an asbestos fiber?				
12:06:18 25	25 literature adds the stipulations of tensile strength		A. Not that I'm aware of.				
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	134		136				
12:06:24	and all of that kind of thing, and most of them,	12:09:02 1	Q. Okay. Let me show you some testimony from				
12:06:27 2	those definitions, are sort of on a geological macro	12:09:06 2	Dr. Longo from oh. Well, no, let's do this.				
12:06:31 3	scale. That's what they're meant to describe.	12:09:17 3	Can we mark this as the next exhibit.				
12:06:33 4	Q. Okay. For your purposes, when you use the	4	(Defendants' Exhibit 2 was marked for				
12:06:35 5	word asbestos or asbestiform in your report, you're	12:09:37 5	identification.)				
12:06:38 6	saying are you saying anything more than 1/2 a	12:09:37 6	Q. (By Mr. Chachkes) Okay. Can you turn to				
12:06:42 7	micron in size, substantially parallel sides?	12:09:44 7	page 3021. This is the deposition this is an				
12:06:45 8	A. Yes. I mean, it's a regulated definition.	12:09:51 8	examination of Dr. Longo under oath.				
12:06:51 9	Q . Yeah, but what I'm asking is if is	12:09:55 9	Can you turn to page 3021? It's the very				
12:06:54 10	there any other qualification in your definition when	12:09:59 10	last sheet. I'm going to read you a question and				
12:06:57 11	you use the phrase the words asbestiform or	12:10:01 11	answer. You can following along. It starts at				
12:07:00 12	asbestos in your report?	12:10:04 12	line 4.				
12:07:01 13	A. Well, we're going by the again, by the	12:10:05 13	Line 4, My question to you, Dr. Longo, is				
12:07:04 14	classic definition of what I just described. Then	12:10:07 14	that transmission electron microscopy cannot tell you				
12:07:09 15	you go in and you do the diffraction, the EDS, and	12:10:11 15	if you identify a single fiber whether or not that				
12:07:13 16	the form of it of course you know, and then you	12:10:14 16	particle is asbestiform or nonasbestiform; correct?				
	make a decision on that. But as far as, you know,	12:10:18 17	Answer: That is correct.				
12:07:16 17		40					
12:07:16 17 12:07:18 18	using that term, you know, it's mainly based on that	12:10:21 18	Do you agree with that testimony?				
	using that term, you know, it's mainly based on that definition.	12:10:21 18 12:10:24 19	Do you agree with that testimony? MS. O'DELL: Object to the form.				
12:07:18 18							
12:07:18 18 12:07:22 19	definition.	12:10:24 19	MS. O'DELL: Object to the form.				
12:07:18 18 12:07:22 19 12:07:23 20	Q. Substantially parallel sides, 1/2 a micron?	12:10:24 19 12:10:25 20	MS. O'DELL: Object to the form. THE WITNESS: I don't I haven't read this, so I don't know what preceded the question				
12:07:18	definition. Q. Substantially parallel sides, 1/2 a micron? A. 1/2 a micron, yeah, yeah.	12:10:24 19 12:10:25 20 12:10:27 21	MS. O'DELL: Object to the form. THE WITNESS: I don't I haven't read				
12:07:18 18 12:07:22 19 12:07:23 20 12:07:26 21 12:07:26 22 12:07:29 23	definition. Q. Substantially parallel sides, 1/2 a micron? A. 1/2 a micron, yeah, yeah. Q. Okay. What about aspect ratio, is that	12:10:24 19 12:10:25 20 12:10:27 21 12:10:30 22	MS. O'DELL: Object to the form. THE WITNESS: I don't I haven't read this, so I don't know what preceded the question there. I see what it says. So I don't have an opinion on that.				
12:07:18 18 12:07:22 19 12:07:23 20 12:07:26 21 12:07:26 22	definition. Q. Substantially parallel sides, 1/2 a micron? A. 1/2 a micron, yeah, yeah.	12:10:24 19 12:10:25 20 12:10:27 21 12:10:30 22 12:10:35 23	MS. O'DELL: Object to the form. THE WITNESS: I don't I haven't read this, so I don't know what preceded the question there. I see what it says. So I don't have an				

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1	137 351	_	4	139
12:10:40	question independent of whatever this means in the	12:13:36	1 2	could be correct?
12:10:42 2	transcript.	12:13:36	_	A. I don't know.
12:10:44 3	Do you, Dr. Rigler, believe that	12:13:38	3	Q. Is there any peer-reviewed literature or
12:10:49 4	transmission electron microscopy cannot tell you if	12:13:41	4	regulatory material that says that TEM cannot tell
12:10:51 5	you identify a single fiber whether or not that	12:13:47	5	you if you identify a single fiber whether or not
12:10:54 6	particle is asbestiform or nonasbestiform?	12:13:49	6	that particle is asbestiform or nonasbestiform?
12:10:56 7	MS. O'DELL: Object to form.	12:13:52	7	A. I mean, I can't think of any as I sit
12:10:58	THE WITNESS: Again, if they're including	12:13:56	8	here. I can't think of any.
12:11:05 9	things like tensile strength, flexibility, that		9	Q. Okay. Is there any regulatory material or
12:11:09 10	type of thing, you can't do that by TEM. So as	12:14:00 1		peer-reviewed material that says the opposite, that
12:11:15 11	far as the form goes, like asbestos, having a	12:14:03		TEM can tell you that if you identify a single fiber,
12:11:18 12	form of asbestos which is fibrous, the	12:14:07		whether or not that particle is asbestiform or
12:11:21 13	description of it, you definitely can.	12:14:09		nonasbestiform?
12:11:23 14	So but again, I don't know what the	12:14:11		MS. O'DELL: Object to the form.
12:11:25 15	context of this is, so, you know, I don't have	12:14:13		THE WITNESS: You're saying that it is not
12:11:30 16	an opinion on that in reference to this.			asbestiform?
12:11:32 17	Q. (By Mr. Chachkes) Okay. Have you ever	12:14:25		Q. (By Mr. Chachkes) So what I'm saying is,
12:11:33 18 12:11:37 19	known Dr. Longo to use a geologic definition of	12:14:28 1		is there any peer-reviewed literature or regulatory
	asbestos?	12:14:30		material that confirms that TEM can tell you if you
12:11:37 20	A. No.	12:14:35		identify a single fiber whether or not that particle
12:11:38 21	Q. Okay. And so when he testified that a TEM	12:14:38		is asbestiform or nonasbestiform?
12:11:42 22	cannot tell you if you identify a single fiber	12:14:42		A. Well, there are yes. I mean, there are
12:11:45 23	whether or not that particle is asbestiform or	12:14:45		a number of regulatory documents that say that it
12:11:47 24	nonasbestiform, you understand that to mean his	12:14:48		Conclusion in 222222 and of the condensate 2
12:11:50 25	regulatory definition; correct?	12:14:48	25	Q. Okay. Is 22262 one of those documents?
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12:11:52 1	MS. O'DELL: Excuse me. Object to the	12:14:52	1	A. I would have to again, I would want to
12:11:53 2	form. Doesn't speak to the context.	12:14:55	2	review 22262 again to look at that before I make that
12:11:56 3	You may answer.	12:14:59	3	answer.
12:11:57 4	THE WITNESS: Can you restate?	12:14:59	4	Q. Well, you're using 22262 in this MDL case;
12:12:00 5	MR. CHACHKES: Do you mind reading it		5	right?
12:12:02 6	back.	12:15:04	6	A. Yeah. I just need to review it again.
12:12:05 7	(The record was read by the reporter.)	12:15:06	7	Q. And you use TEM to identify whether a
12:12:44 8	THE WITNESS: Well, I mean, it would be	12:15:08	8	single fiber is or is not asbestiform in this case;
12:12:47	based on the regulatory definition. So, I mean,	12:15:11	9	right?
12:12:52 10	that's all I can say about that.	12:15:11	10	MS. O'DELL: Object to the form.
12:12:55 11	Again, I don't know what the context was	12:15:12	11	THE WITNESS: Yes.
12:12:57 12	in this. I can't speak for Dr. Longo. So	12:15:12	12	Q. (By Mr. Chachkes) And that was pursuant
12:13:02 13	that's the best answer I can give.	12:15:13	13	to 22262; correct?
12:13:04 14	Q. (By Mr. Chachkes) Is there any world in	12:15:15 1	14	A. Well, no, it was not just the 22262.
12:13:05 15	which it's correct to say that under your regulatory	12:15:18 1	15	There were the other methods that were there, too.
12:13:08 16	definition a TEM cannot tell you if you identify a	1	16	Q . Okay.
12:13:11 17	single fiber whether or not that particle is	12:15:21 1	17	A. Yeah.
12:13:14 18	asbestiform or nonasbestiform?	12:15:21	18	Q. Did you follow the 22262 protocol for TEM?
12:13:15 19	MS. O'DELL: Object to the form.	12:15:25	19	A. To my knowledge, we did. And that also
12:13:17 20	THE WITNESS: It's such a broad question	12:15:31	20	is is also the same type of protocol that is in
	about that, I don't know quite how to answer it,	12:15:34	21	the ASTM and also the EPA methods. So yeah.
12:13:22 21	about that, I don't know quite now to answer it,			
12:13:26 22	other than the way that I've already answered	12:15:39	22	Q . Does 22262 expressly say you can use TEM
12:13:26 22 12:13:28 23		12:15:43	23	Q . Does 22262 expressly say you can use TEM to identify whether or not a particle is asbestiform
12:13:26 22 12:13:28 23 12:13:32 24	other than the way that I've already answered	12:15:43 2 12:15:47 2	23 24	to identify whether or not a particle is asbestiform or nonasbestiform?
12:13:26 22 12:13:28 23	other than the way that I've already answered it. Because when you say in any world, I mean,	12:15:43	23 24	to identify whether or not a particle is asbestiform

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12:15:53	1	be able to verify that it says actually says that.	.05 12:18:14	1 MS. O'DELL: Object to the form.
12:15:58	2	Q. You were involved in many more reports	12:18:16	THE WITNESS: Could you just restate that?
12:16:19	3	concerning J&J talc other than the MDL reports;	12:18:27	3 MR. CHACHKES: Do you mind reading that
12:16:23	4	right?	12:18:29	4 back.
12:16:24	5	MS. O'DELL: Object to the form.	12:18:29	5 THE WITNESS: I know she can read it back,
12:16:25	6	THE WITNESS: Some other reports.	12:18:31	6 but can you restate it another way?
12:16:27	7	Q. (By Mr. Chachkes) So those were bottles	12:18:32	Q . (By Mr. Chachkes) It's going to be read
12:16:27	8	that were not those are different bottles, not the	12:18:33	8 back. Sorry.
12:16:29	9	MDL bottles?	12:18:34	9 MS. O'DELL: And if you still need that
12:16:30	0	MS. O'DELL: Object to the form.	12:18:36	0 question rephrased, you may
12:16:31	1	THE WITNESS: They may have been, yes.	12:18:37	1 THE WITNESS: That would be nice.
12:16:32	12	Q. (By Mr. Chachkes) You didn't issue any	12:18:38	2 MS. O'DELL: You may ask that.
12:16:34	3	other reports on the bottles at issue in this case,	12:18:40	THE WITNESS: I'd like it to be rephrased.
12:16:37	4	have you?	12:18:42	4 MR. CHACHKES: As long as we keep talking,
12:16:38	15	MS. O'DELL: Object to the form.	12:18:44	5 she keeps typing.
12:16:39 1	6	THE WITNESS: Again, I don't recall.	12:18:48 1	6 (The record was read by the reporter.)
12:16:42	7	Q. (By Mr. Chachkes) Are you aware that in	12:19:12	7 MS. O'DELL: Object to the form.
12:16:46	8	the old reports the majority of particles you	12:19:14	THE WITNESS: Rephrase.
12:16:50 1	9	identified were fibers, and in this MDL the majority	12:19:15	9 Q. (By Mr. Chachkes) Would you expect that
12:16:53	20	of particles you identified were bundles; are you	12:19:18	your fiber-to-bundle ratio for the Vermont samples
12:16:56 2	21	aware of that?	12:19:22	from your old reports would be reproducible in
12:16:57	22	A. I'd have to look back at the reports to	12:19:29	analyzing another set of bottles like the set of
12:16:59 2	23	make that conclusion.	12:19:32	bottles in the MDL?
12:17:01 2	24	Q . Okay. Given that the old reports and the	12:19:33	MS. O'DELL: Object to the form.
12:17:07 2	25	new reports are both on J&J bottles, would you expect	12:19:36	Q. (By Mr. Chachkes) From the same mine?
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12:17:11	1	the same fiber-to-bundle ratio in the two separate	12:19:37	1 MS. O'DELL: Object to the form.
12:17:16	2	sets of reports?	12:19:38	THE WITNESS: You know, I'm not a
12:17:17	3	MS. O'DELL: Object to form.	12:19:39	3 geologist. But once again, the you would
12:17:18	4	THE WITNESS: Not necessarily.	12:19:45	4 have I would expect some variation. I would
12:17:18	5	Q. (By Mr. Chachkes) Why not?	12:19:48	5 expect some variation.
12:17:19	6	A. You get variation depending upon where the	12:19:49	6 Q. (By Mr. Chachkes) When you say some
12:17:22	7	material was mined and combined.	12:19:50	7 variation, can you quantify?
	8	Q. For a if you isolate a single mine,	12:19:51	8 A. No. No. But I would expect because the
	9	let's say, just Vermont	12:19:55	9 materials out of the ground are, you know
12:17:31 1 12:17:31 1		A. Okay.	12:19:59 1	
12:17:31 1 12:17:35 1		Q would you expect the old reports, the fiber-to-bundle ratio, to match the MDL report?	12:20:02 1 12:20:06 1	
12:17:35		MS. O'DELL: Object to the form.	12:20:06	,
12:17:38		·	12:20:09	
12:17:39 1		THE WITNESS: I would expect that they may follow the same kinds of trends, you know, as	12:20:12 1 12:20:15 1	2
12:17:47		far as aspect ratio, that type of thing, yeah.	12:20:15	
12:17:51		Q. (By Mr. Chachkes) But what about the	12:20:19	
12:17:55		fiber-to-bundle ratio?	12:20:24	,
12:17:56		A. Again, I'd have to look at that. I can't	12:20:29	
12:17:59 2		make a conclusion on that without looking at it.	12:20:35	• • • • • • • • • • • • • • • • • • • •
12:17:09 2		Q. Okay. So sitting here today you can't	12:20:36	
12:18:05 2		tell me if you would expect a certain degree of	12:20:39	
12:18:08 2		reproducibility for the Vermont mine bottles from the	12:20:41	. ,
12:18:12		old reports as compared to the MDL bottles in this	12:20:44	•
12.10.12				
12:18:14	25	report?	12:20:44	5 A. Okay. I'd say substantially the same.

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12:20:46	Q. Okay. What degree do they differ?	12:22:49 1 Q. What's the largest width a tremolite
12:20:50 2	What ways do they differ?	12:22:52 2 particle can have and still be characterized as a
12:20:50 3	A. There may be some variation, slight	12:22:56 3 fiber under TEM? Same answer?
12:20:52 4	variation in the densities, the heavy density liquid.	12:22:58 4 A. Yeah.
12:20:55 5	Q. Any other variation?	12:22:58 5 Q. Okay. Are all of the fibers that you've
12:20:56 6	A. I can't think of any right off the bat.	12:23:05 6 identified in your reports as asbestos or asbestiform
12:20:59 7	Q. What's the average width of a tremolite	12:23:11 7 formed in the fibrous crystalline habit?
12:21:02	fiber under TEM?	12:23:14 8 A. Originally, you know, looking at the
12:21:03	A. That varies depending on the size.	12:23:18 9 structures, we get into that question of them being
12:21:05 10	Q. And when you say depending on the size,	12:23:22 10 formed in a crystalline habit. So that is a growth
12:21:09 11	what do you mean by that?	mode for the production of the fibrils; but also, if
12:21:10 12	A. Well, I mean, it depends. It varies. It	12:23:34 12 you how do you want to say it?
12:21:12 13	can be 1/10 of a micron and up.	12:23:41 13 If massive tremolite, for instance, is
12:21:14 14	Q. So there's no in the published	12:23:46 14 milled a certain way, it can break in cleavage planes
12:21:21 15	literature there's no average width of a tremolite	12:23:51 15 that will make it into the fibrils that are, you
12:21:22 16	fiber?	12:23:56 16 know, regulated type fibrils. Sure, you'll get
12:21:23 17	MS. O'DELL: Object to the form.	12:23:59 17 cleavage fragments, ones that appear triangular and
12:21:24 18	THE WITNESS: Oh, gosh. I don't know.	12:24:04 18 you know, different kinds of shapes, but you will
12:21:32 19	There may be. But as far as there being an	12:24:06 19 produce these other kind of fibrils too that will
12:21:36 20	arrange width, again, it depends on how it's	12:24:09 20 meet the definition.
12:21:38 21	been mined and milled and processed.	12:24:10 Q. Okay. So a mineral that has a
12:21:41 22	Q. (By Mr. Chachkes) Is there an average	12:24:18 22 nonregulated and a regulated version can be connected
12:21:42 23	width of an anthophyllite fiber under TEM?	12:24:23 23 in the cleavage plane but can be broken up such that
12:21:44 24	A. Same answer.	12:24:27 24 it would become in your mind a regulated asbestos
12:21:45 25	Q. What's the largest width an anthophyllite	12:24:29 25 fiber?
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12:21:48 1	particle can have and still be characterized as a	12:24:30 1 MS. O'DELL: Object to the form.
12:21:48 1 12:21:51 2		
	particle can have and still be characterized as a	12:24:30 1 MS. O'DELL: Object to the form.
12:21:51 2	particle can have and still be characterized as a fiber under a TEM?	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent 12:24:40 4 publication for I think it's amosite,
12:21:51 2 12:21:52 3	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent
12:21:51 2 12:21:52 3 12:21:59 4	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled fibrils in there, you know, it could be pretty large.	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent 12:24:40 4 publication for I think it's amosite,
12:21:51 2 12:21:52 3 12:21:59 4 12:22:03 5	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled fibrils in there, you know, it could be pretty large. Q. Well, the question's really what's the	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent 12:24:40 4 publication for I think it's amosite, 12:24:45 5 grunerite, that shows this happens.
12:21:51 2 12:21:52 3 12:21:59 4 12:22:03 5 12:22:05 6	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled fibrils in there, you know, it could be pretty large. Q. Well, the question's really what's the largest width an anthophyllite particle can have and	12:24:30 MS. O'DELL: Object to the form. 12:24:31 THE WITNESS: Well, this does happen. 12:24:35 This does happen. And there's a recent 12:24:40 publication for I think it's amosite, 12:24:45 grunerite, that shows this happens. 12:24:48 Q. (By Mr. Chachkes) Okay. What's the
12:21:51 2 12:21:52 3 12:21:59 4 12:22:03 5 12:22:05 6 12:22:08 7	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled fibrils in there, you know, it could be pretty large. Q. Well, the question's really what's the largest width an anthophyllite particle can have and still be characterized as a fiber?	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent 12:24:40 4 publication for I think it's amosite, 12:24:45 5 grunerite, that shows this happens. 12:24:48 6 Q. (By Mr. Chachkes) Okay. What's the 12:24:49 7 publication you're citing now?
12:21:51 2 12:21:52 3 12:21:59 4 12:22:03 5 12:22:05 6 12:22:08 7 12:22:10 8	particle can have and still be characterized as a fiber under a TEM? A. As far as long as there are bundled fibrils in there, you know, it could be pretty large. Q. Well, the question's really what's the largest width an anthophyllite particle can have and still be characterized as a fiber? A. Well, if it has the aspect ratio, it will	12:24:30 1 MS. O'DELL: Object to the form. 12:24:31 2 THE WITNESS: Well, this does happen. 12:24:35 3 This does happen. And there's a recent 12:24:40 4 publication for I think it's amosite, 12:24:45 5 grunerite, that shows this happens. 12:24:48 6 Q. (By Mr. Chachkes) Okay. What's the 12:24:49 7 publication you're citing now? 12:24:50 8 A. It's a 2019. It's a recent publication.
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	Case 3.	:16-md-02738-MAS-RLS Document (733- 9)	-iled 05 ,	'07/19 Page 39 of 59 PageID: 151
12:25:31 1	habit?	149 35	107	1		you've reported on for TEM that is somewhere
	Habits	MS. O'DELL: Object to the form.	12:27:35	2	-	aboratory, like an electronic file that's
_		THE WITNESS: Well, again, it's not part	12:27:39	3	-	produced, not in paper form for us?
4	of t	he definition, that it be in the crystalline	12:27:41	4	A.	Not that I know of, no.
12:25:34 4 12:25:37 5		it. The definition has the parameters that	12:27:44	_	Q.	Was there any data generated in connection
12:25:40 6		discussed already. If it is in that form,	12:27:48	6		TEM analysis in this case that was thrown
12:25:45 7		going to be classified like that.	12:27:46	7		deleted?
12:25:48	Q.	(By Mr. Chachkes) If something is formed	12:27:54	8	A.	No.
12:25:53		rystalline habit and has an aspect ratio	12:27:54	9	Q.	I'm moving on to a new topic. It's
12:25:56 10		-to-1, would you call it regulated asbestos?	12:27:59	_		i. I'm happy to keep going. It would be a
12:25:59 11	A.	Well, if it's 3-to-1, OSHA would.	12:28:02			eaking point but
12:26:02 12	Q.	If something was formed in the fibrous	12:28:04		Α.	I'm good to go. We can go.
12:26:04 13		ne habit and was in a 2-to-1 aspect ratio,	12:28:06		Q.	Okay. I mean, we're going to have a lunch
12:26:08 14	-	ou call it asbestos?	12:28:08	14		re going to come back, so it's not like we're
12:26:10 15	Α.	That wouldn't meet the definition.	12:28:11	15		finish before lunch.
12:26:12 16	Q.	Okay. Does MAS have a protocol in place	12:28:13		A.	Oh. Oh, well.
12:26:18 17		ribing the dimensions of fibers under a TEM?	12:28:13			MS. O'DELL: It's up to you, Doctor. If
12:26:22 18	A.	Yes.	12:28:15	18	you	want to go a little longer
12:26:22 19	Q.	Is it written?	12:28:16	19	•	THE WITNESS: We can take a break if you
12:26:24 20	A.	Yes, it's in accordance with the standard	12:28:16	20	wan	t to take a break.
12:26:26 21	method	ls, all of these standard methods we've	12:28:17	21		MS. PARFITT: It's up to you.
12:26:28 22	discuss	ed.	12:28:18	22		MS. O'DELL: It's really up to you.
12:26:29 23	Q.	Okay. So your written protocol for	12:28:21	23		THE WITNESS: Okay. That's good. Break.
12:26:37 24	identifyi	ng what's asbestos or not under a TEM is	12:28:22	24		(Lunch recess from 12:28 p.m. to 1:38 p.m.)
12:26:39 25	just bas	ically a repeat of the regulations?	13:38:49	25	Q.	(By Mr. Chachkes) Good afternoon.
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		- p				• •
		150				152
12:26:41 1	A.	· · · · · · · · · · · · · · · · · · ·	13:39:27	1	A.	
12:26:41 1 12:26:42 2	A. Q.	150	13:39:27 13:39:27	1 2		152
2		150 Yes.		-	A. Q.	Good afternoon.
12:26:42 2	Q. A.	Yes. Okay. No change whatsoever	13:39:27	2	A. Q.	Good afternoon. Am I correct that you are not going to
12:26:42 2 12:26:44 3	Q. A. with th Q.	Yes. Okay. No change whatsoever Well, I mean, it's it's in accordance e regulation. Okay. What form is it in? Is it like a	13:39:27 13:39:30	2	A. Q. testify a A. Q.	Good afternoon. Am I correct that you are not going to bout the PLM results in your report?
12:26:42 2 12:26:44 3 12:26:49 4	Q. A. with th Q. piece of	Yes. Okay. No change whatsoever Well, I mean, it's it's in accordance e regulation. Okay. What form is it in? Is it like a paper on a wall so TEM scientists can look	13:39:27 13:39:30 13:39:34	2 3 4	A. Q. testify a A.	Good afternoon. Am I correct that you are not going to bout the PLM results in your report? That's correct.
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12:26:42	Q. A. with th Q. piece of at it? Is prof Q. a piece A. Q. them A. have. Q. produce describing that the A. Q.	Yes. Okay. No change whatsoever Well, I mean, it's it's in accordance e regulation. Okay. What form is it in? Is it like a paper on a wall so TEM scientists can look it an email? What it is? MS. O'DELL: Object to the form. THE WITNESS: It's a protocol. We have a tocol that the analysts have to abide by. (By Mr. Chachkes) Just physically, is it of paper that analysts memorize It's a document, yeah. Okay. Do the analysts have it near It's a standard operating procedure we Okay. So we would ask that that be d. Does MAS have a protocol in place for ing the dimensions of fibers under TEM, or is same answer? Same answer.	13:39:27 13:39:34 13:39:34 13:39:38 13:39:40 13:39:47 13:39:47 13:39:51 13:39:51 13:39:57 13:40:03 13:40:09 13:40:09 13:40:09	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. Q. testify all A. Q. of that. testify all A. Q. A. Q. J3. did MAS A. doesn't Q. right? A. Q. A. Q. A. results.	Good afternoon. Am I correct that you are not going to cout the PLM results in your report? That's correct. Okay. I'll skip PLM questioning because Am I correct that you are not going to cout J3 results in your report? Dr. Longo will testify on that. Okay. Not you; right? Correct. Okay. So I'm going to skip questions on Let me just ask one question, though. Why use J3? MAS used J3 to do XRD analysis. MAS have XRD capabilities. But they did some other things beyond XRD; J3? Yeah. Yes. Okay. Why did they do those things?

153 35 08 155 1	1 Q. Verify results of things that were 1 A. The answer to that is yes, I would expect 1 that. 2 2 otherwise being duplicated by MAS? 2 3 A. There may have been some of that, yes. 3 A. Again, if you would ask Dr. Longo about that, please. 3 Again, if you would ask Dr. Longo about that, please. 3 C. Okay. What's an example of silicate, some 3 C. Okay. What's an example of silicate, some 3 C. Okay. What's an example of silicates are 3 C. Okay. What's an example of silicates are 4 C. Okay. What's an example of silicates. I 4 C. Okay. What's an example of silicates. I 4 C. Okay. What's an example of silicates. I 4 C. Okay. What's an example of silicates are 4 C. Okay. What's an example of silicates. I 4 C. Okay. What's an example of si		Case 3: .	153 25	133-9	l iled 05/	07/19 Page 40 01 59 Page 15. 155
2 otherwise being duplicated by MAS? 3 A. There may have been some of that, yes. 3 A. There may have been some of that, yes. 3 A. There may have been some of that, yes. 3 A. There may have been some of that, yes. 4 Again, if you would ask Dr. Longo about that, please. 5 A. Okay. What's an example of silicate, some 6 silicate materials? 7 A. Well, a whole group of phyllosilicates are 6 clay, clay minerals. There's lots of silicates. I 8 mean, the earth's crust is covered with silicates. 9 mean, the earth's crust is covered with silicates. 10 A. Yes. 10 B. O'DELL: Object to the form. 10 A. Yes. 10 C. Is talc a silicate? 10 Degram and another malyst looked at a bottle and saw 10,000 fibers per gram and another analyst looked at at the same bottle and got a nondetect, would that be within the margin of error? 10 A. Well, they vary by composition, color, size, particle size, that type of thing. 10 A. Well, they vary by composition, color, size, particle size, that type of thing. 10 A. Fibrous talc could be described as an asbestiform mineral? 10 A. Yes. 10 A. Yes. 10 A. Fibrous talc could be described as an asbestiform mineral? 10 A. Yes. 10 A. Yes. 10 A. Yes. 10 A. Well, they vary by composition, color, size, particle size, that type of thing. 10 A. Fibrous talc could be described as an asbestiform mineral? 10 A. Fibrous talc could be described as an asbestiform mineral? 10 A. Yes. 10 A. Yes. 10 A. Yes. 10 A. Well, you know how many amphibole mineral 10 A. Yes. 10 A. Yes. 10 A. Yes. 10 A. Well, you know how you determine structures; correct? 10 A. Yes. 10 A. Yes. 10 A. Yes. 10 A. Well, again, thet varies. That can vary, as I say, depending on what the detection limit is. 10 A. Well, again, the varies of the form. 10 A. Well, again, the varies of the form. 10 A. Well, you know how wallanta-reporters.com 10 A. Well, again, the prime that there's different saw to say the properties	that. 15252 2 otherwise being duplicated by MAS? 3 A. There may have been some of that, yes. Again, if you would ask Dr. Longo about that, please. 15262 5 Q. Okay. What's an example of silicate, some 15262 6 silicate materials? Q. Okay. What's an example of silicate, some 15262 6 silicate materials? 15262 7 Q. Okay. What's an example of silicates. I 15262 8 mean, the earth's crust is covered with silicates. I 15262 9 mean, the earth's crust is covered with silicates. 15262 10 Q. Is taic a silicate? 15262 11 A. Yes. 15262 12 Q. Are you aware that there's different 15262 13 grades of taic? 15262 14 A. Yes. 15262 15 Q. What are those grades? 15262 16 A. Well, they vary by composition, color, 15262 17 Size, particle size, that type of thing. 15262 17 Size, particle size, that type of thing. 15262 18 Q. Is taic an asbestiform mineral? 15262 19 A. Fibrous taic could be described as an asbestiform, yes. 15262 10 Q. Do you know how many amphibole mineral 15262 11 Size, 22 A. Yes. 15262 12 A. Not right off the top of my head. I bet 15262 13 It's many. 15263 14 A. Yes. 15263 15 A. Yes. 15263 16 A. Yes. 15263 17 A. Yes. 15263 17 A. Yes. 15263 17 A. Yes. 15263 18 A. Yes. 15263 18 A. Yes. 15263 19 A. Well, payon was allowed a size of the form. 15263 10 A. Well, payon was allowed as a bottle and on the number of structures that they saw. 15263 12 A. Not right off the top of my head. I bet 15263 15 A. Yes. 15263 16 A. Yes. 15263 17 A. Well, again, that varies. That can vary, allowed an above a certain detection limit is. 15263 17 A. Yes. 15263 18 A. Yes. 15263 18 A. Yes. 15263 19 A. Well, again, that varies. That can vary, allowed an allow on the number of structures on the file of the form. 15263 17 A. Yes. 15263 18 A. Yes. 1527 20 A. Well, again, that varies. The can vary, allowed an allow on the number of structures on the file of the form. 15263 17 A. Yes. 15263 18 A. Yes. 15263 19 A. Yes. 15264 19 A. Yes. 15265 10 A. Well, again, that varies. That can vary, allowed an al	١ ,	_	30.		_	
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134-04/ 12 Q. Are you aware that there's different 134-05/ 12 Q. Are you aware that there's different 134-05/ 13 grades of talc? 134-05/ 14 A. Yes. 134-05/ 15 Q. What are those grades? 14 MS. O'DELL: Object to the form. 144-05/ 15 THE WITNESS: That would depend on the 134-05/ 17 size, particle size, that type of thing. 134-05/ 18 Q. Is talc an asbestiform mineral? 134-05/ 19 A. Fibrous talc could be described as an asbestiform, yes. 134-05/ 21 Q. Are asbestiform minerals silicates? 144-05/ 15 A. Yes. 154-05/ 15 Q. Do you know how many amphibole mineral 154-15/	134047 11 A. Yes. 134047 12 Q. Are you aware that there's different 134057 13 grades of taic? 134058 14 A. Yes. 134058 16 A. Well, they vary by composition, color, 134058 16 A. Well, they vary by composition, color, 134058 17 Size, particle size, that type of thing. 134059 18 Q. Is talc an asbestiform mineral? 134059 19 A. Fibrous talc could be described as an 134159 21 Q. Are asbestiform, yes. 134151 21 Q. Are asbestiform winerals silicates? 134158 22 A. Yes. 134158 23 Q. Do you know how many amphibole mineral 134159 24 A. Quite a few. Altanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154122 4 P. A. Not right off the top of my head. I bet 134159 4 Q. Like more than 10? 134159 5 A. Yes. 134151 6 Q. More than 30? 134151 6 Q. More than 30? 134151 6 Q. More than 30? 134151 7 Q. When it comes time to give analysts in 134150 8 Q. When it comes time to give analysts in 134150 9 your labs samples of J&J talc to analyze, do you 134150 8 aliquot from a bottle and got a nondetect, would that be at the same bottle and got a nondetect, would that be at the same bottle and got a nondetect, would that be at the same bottle and got a nondetect, would that be within the margin of error? 13450 12 within the margin of error? 13450 14 MS. O'DELL: Object to the form. 13450 15 THE WITNESS: That would depend on the statistics that we were using, whether that would depend. 9 value 11 A. Yes. 13450 15 THE WITNESS: That would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the statistics that we were using, whether that wou						, ,
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134050 13 grades of tale? 134050 14 A. Yes. 134051 15 Q. What are those grades? 134051 15 THE WITNESS: That would depend on the statistics that we were using, whether that 134051 17 would depend. 134051 18 Q. (By Mr. Chackkes) Depend on what? 134051 19 A. Fibrous talc could be described as an absestiform, yes. 134051 20 asbestiform, yes. 134051 21 Q. Are asbestiform minerals silicates? 134051 22 A. Yes. 134051 23 Q. Do you know how many amphibole mineral species there are? 134052 24 species there are? 134052 25 A. Quite a few. Allanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 154 155 156 154 154 155 156 154 154 155 156 154 154 155 156 154 154 155 156 154 154 155 156 156 154 154 155 156 156 154 154 155 156 156 154 155 156 156 156 156 156 156 156 156 156	13 grades of tale? 134,050 14 A. Yes. 134,050 14 A. Yes. 134,050 15 A. Well, they vary by composition, color, 134,050 17 size, particle size, that type of thing. 134,050 18 Q. Is talc an asbestiform mineral? 134,050 19 A. Fibrous talc could be described as an 134,050 19 A. Fibrous talc could be described as an 134,050 19 A. Fibrous talc could be described as an 134,050 19 A. Fibrous talc could be described as an 134,050 19 A. Fibrous talc could be mineral 134,050 19 A. It would depend on the number of 134,050 19 A. It would mineral they saw. 134,050 19 A. It would mineral 134,050 19 A. It would mi						
1340:50 14 A. Yes. 1340:51 15 Q. What are those grades? 1340:51 16 A. Well, they vary by composition, color, 1340:52 17 size, particle size, that type of thing. 1340:59 18 Q. Is talc an asbestiform mineral? 1341:50 19 A. Fibrous talc could be described as an 1341:50 19 A. Fibrous talc could be described as an 1341:51 21 Q. Are asbestiform, yes. 1341:51 22 A. Yes. 1341:51 22 A. Yes. 1341:52 24 Species there are? 1341:52 25 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 154 154 155 Q. More than 10? 1342:32 5 A. Ves. 1343:35 5 A. Yes. 1343:45 5 G. More than 30? 154 155 Q. More than 30? 154 155 Q. What are those grades? 1343:55 6 the Will, How Vary by Composition, color, 1343:61 15 THE WITNESS: That would depend on the 1343:61 15 would depend. 1343:61 10 Q. (By Mr. Chackkes) Depend on what? 1343:62 20 (By Mr. Chackkes) Depend on what? 1343:62 21 Q. (By Mr. Chackkes) Depend on what? 1343:62 21 Q. Okay. Well, you know how you determine 1343:22 20 structures that they saw. 1343:22 21 Q. Okay. Well, you know how you determine 1343:22 22 A. Yes. 1343:22 23 A. Yes. Yes. 1343:22 24 Q. And you know the number of structures you need to extrapolate to 10,000 per gram? 1341:56 A. Well, again, that varies. That can vary, 1343:57 A. Well, again, that varies. That can vary, 1343:58 So when you're saying a certain number per gram, 1343:58 So when you're saying a certain number per gram, 1343:59 So when you're saying a certain number per gram, 1343:50 G. (By Mr. Chackkes) Depend on the 1343:50 So you may want to ask the question again to 1345:50 G. (By Mr. Chackkes) Depend on the 1345:50 G. (By Mr. Chackkes) Depend on what? 1345:50 So when you're saying a certain number per gram, 1345:50 G. (By Mr. Chackkes) Depend on the would depend. 1345:50 So when Chackes) Depend on the number of structures; 1345:50 So when you're saying a certain numb	134050 14 A. Yes. 134051 15 Q. What are those grades? 134051 16 A. Well, they vary by composition, color, 134057 17 isize, particle size, that type of thing. 134058 18 Q. Is talc an asbestiform mineral? 134100 19 A. Fibrous talc could be described as an 134101 21 Q. Are asbestiform minerals silicates? 134111 21 Q. Are asbestiform minerals silicates? 134112 22 A. Yes. 134112 23 Q. Do you know how many amphibole mineral 13412 24 species there are? 13412 25 A. Quite a few. Altanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 15412 1 Q. Do you have an estimate? 13412 2 A. Not right off the top of my head. I bet 13412 3 A. Not right off the top of my head. I bet 13413 5 A. Yes. 13413 6 Q. When it comes time to give analysts in 13413 7 A. Yes. 134133 8 Q. When it comes time to give analysts in 134130 9 your labs samples of J&J talc to analyze, do you 134131 9 A. Well, take were using, whether that 134131 15 THE WITNESS: That would depend on the 134312 15 A. Well, take were using, whether that 134312 17 would depend. 134312 10 A. It would depend on what? 134313 1 A. It would depend on what? 13432 21 Q. Okay. Well, you know how you determine 13432 21 Q. Okay. Well, you know how you determine 13432 22 A. Yes. Yes. 13432 23 A. Yes. Yes. 13432 24 Q. And you know the number of structures you 13432 24 Q. And you know the number of structures you 13432 24 Q. And you know the number of structures you 13432 25 A. Well, again, that varies. That can vary, 13432 2 A. Well, again, that varies. That can vary, 13432 3 So when you're saying a certain number per gram, 134433 7 A. Yes. 134433 7 Q. When it comes time to give analysts in 134433 8 Q. When it comes time to give analysts in 134430 9 your labs samples of J&J talc to analyze, do you			•			-
134051 15 Q. What are those grades? 134051 16 A. Well, they vary by composition, color, 134057 17 size, particle size, that type of thing. 134059 18 Q. Is talc an asbestiform mineral? 134105 19 A. Fibrous talc could be described as an 134110 20 asbestiform, yes. 134111 21 Q. Are asbestiform minerals silicates? 134115 22 A. Yes. 134112 23 Q. Do you know how many amphibole mineral 13412 24 species there are? 13412 25 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 13412 2 A. Not right off the top of my head. I bet 13412 3 G. More than 30? 134131 5 A. Yes. 134131 5 A. Yes. 134132 6 Q. More than 30? 134313 6 Q. More than 30? 134315 5 A. Yes. 134315 6 Q. More than 30? 134316 15 THE WITNESS: That would depend on the statistics that we were using, whether that would depend. 134317 17 would depend on what? 13432 10 13432 10 13432 10 13432 10 13432 20 13432 20 13432 20 13432 21 Q. Okay. Well, you know how you determine structures; correct? 13432 22 A. Yes. Yes. 13432 23 Q. Do you know how many amphibole mineral 13432 24 13432 25 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 13433 1 A. Well, again, that varies. That can vary, 13433 2 A. Well, again, that varies. That can vary, 13432 3 134343 4 13433 5 A. Yes. 13433 6 C. More than 30?	134631 15 Q. What are those grades? 134631 16 A. Well, they vary by composition, color, 134631 17 size, particle size, that type of thing. 134631 18 Q. Is talc an asbestiform mineral? 134630 19 A. Fibrous talc could be described as an asbestiform, yes. 134132 1 Q. Are asbestiform minerals silicates? 134132 2 A. Yes. 134132 2 A. Quite a few. Altanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154122 2 A. Not right off the top of my head. I bet 134133 5 A. Yes. 134133 7 A. Yes. 134133 7 A. Yes. 134133 8 Q. When it comes time to give analysts in 134430 9 your labs samples of J&J talc to analyze, do you 134133 8 Q. When it comes time to give analysts in 134400 9 your labs samples of J&J talc to analyze, do you 134131 18 Statistics that we were using, whether that would depend on the statistics that we were using, whether that would depend on the 134410 15 A. Well, you know hear that would depend on the 134410 15 A. Well, you know how that? 134410 19 Statistics that we were using, whether that would depend on the 134410 15 A. Well depend on the 134410 15 A. Well depend on the 134410 15 A. Well depend on the 144410 154 Statistics that we were using, whether that would depend on the 144410 154 Statistics that we were using, whether that would depend on the 144410 154410 16 Statistics that we were using, whether that would depend on the 144410 154410 16 Statistics that we were using, whether that would depend on the 154410 16 Statistics that we were using, whether that would depend on the 145410 15 Statistics that we were using, whether that would depend on the 145410 15 Statistics that we were using, whether that would depend on the 145410 15 Statistics that we were using, whether that would depend on the 145410 15 Statistics that we were using, whether that would depend on the 154410 19 Statistic that we were using, whether that statistics that we were using, whether that statistics that we were using the statistics that we were using the statistics that we we		•				•
134054 16 A. Well, they vary by composition, color, 134057 17 size, particle size, that type of thing. 134317 17 would depend. 134317 17 would depend. 134319 18 Q. Is talc an asbestiform mineral? 134319 18 Q. (By Mr. Chachkes) Depend on what? A. Fibrous talc could be described as an 134320 19 A. It would depend on the number of structures that they saw. 134311 21 Q. Are asbestiform minerals silicates? 134322 20 structures that they saw. 134319 22 A. Yes. 134323 21 Q. Okay. Well, you know how you determine structures; correct? 134312 24 species there are? 134328 24 Q. And you know the number of structures you need to extrapolate to 10,000 per gram? Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 12 Q. Do you have an estimate? 134333 1 A. Well, again, that varies. That can vary, 134322 3 it's many. 134334 4 Q. Like more than 10? 134334 5 A. Yes. 134335 5 limit. So you may want to ask the question again to 134335 6 clarify a little more.	134057 17 size, particle size, that type of thing. 134058 18 Q. Is talc an asbestiform mineral? 134058 19 A. Fibrous talc could be described as an asbestiform, yes. 134151 21 Q. Are asbestiform minerals silicates? 134152 22 A. Yes. 134152 23 Q. Do you know how many amphibole mineral 134152 24 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 134152 2 A. Not right off the top of my head. I bet 134152 2 A. Not right off the top of my head. I bet 134153 4 Q. Like more than 10? 134153 7 A. Yes. 134153 7 A. Yes. 134153 7 A. Yes. 134154 9 your labs samples of J&J talc to analyze, do you 134156 9 your labs samples of J&J talc to analyze, do you 134156 9 your labs samples of J&J talc to analyze, do you 134156 9 analyst analyzed an aliquot and didn't detect any	13:40:51 15	Q.	What are those grades?	13:43:10 15		·
1340:57 17 size, particle size, that type of thing. 1340:59 18 Q. Is talc an asbestiform mineral? 1343:9 18 Q. (By Mr. Chachkes) Depend on what? 1343:19 19 A. Fibrous talc could be described as an 1343:10 20 asbestiform, yes. 1343:11 21 Q. Are asbestiform minerals silicates? 1343:12 22 A. Yes. 1343:14 23 Q. Do you know how many amphibole mineral 1343:22 24 species there are? 1343:22 25 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 155 154 156 154 156 154 156 154 157 158 158 159 159 159 159 159 159 159 159 159 159	134059 17 size, particle size, that type of thing. 134059 18 Q. Is talc an asbestiform mineral? 134105 19 A. Fibrous talc could be described as an 134107 20 asbestiform, yes. 134111 21 Q. Are asbestiform minerals silicates? 134115 22 A. Yes. 134115 23 Q. Do you know how many amphibole mineral 13412 25 A. Quite a few. 13412 25 A. Quite a few. 13412 27 A. Quite a few. 13412 2 A. Not right off the top of my head. I bet 13412 3 A. Not right off the top of my head. I bet 13412 4 Q. Like more than 10? 13413 5 A. Yes. 13413 6 Q. More than 30? 13413 7 A. Yes. 13413 7 A. Yes. 13413 8 Q. When it comes time to give analysts in 13413 8 Q. When it comes time to give analyze, do you 13413 9 your labs samples of J&J talc to analyze, do you 13413 9 asbestiform mineral? 13413 9 your labs samples of J&J talc to analyze, do you 13413 9 asbestiform, yes. 13413 9 A. Fibrous talc could be described as an 13432 19 A. It would depend on the number of 134322 20 c. (By Mr. Chachkes) Depend on what? 134320 19 A. It would depend on the number of structures that they saw. 134322 10 Q. Okay. Well, you know how you determine 13422 22 structures; correct? 134322 23 A. Yes. 134322 24 Q. And you know the number of structures you need to extrapolate to 10,000 per gram? Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 13433 1 A. Well, again, that varies. That can vary, as I say, depending on what the detection limit is. So when you're saying a certain number per gram, that's based on it being above a certain detection limit. So you may want to ask the question again to clarify a little more. 134133 7 A. Yes. 134133 7 Q. Well, let's say one analyst analyzed an aliquot from a bottle and saw 10 fibers and another analyst analyzed an aliquot and didn't detect any		A.	· ·	13:43:12 16	stati	·
134059 18 Q. Is talc an asbestiform mineral? 134105 19 A. Fibrous talc could be described as an 134100 20 asbestiform, yes. 134111 21 Q. Are asbestiform minerals silicates? 134112 2 A. Yes. 134112 2 Q. Do you know how many amphibole mineral 13412 2 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 154 154 155 154 154 156 154 157 158 158 159 159 159 159 159 159 159 159 159 159	134059 18 Q. Is talc an asbestiform mineral? 134106 19 A. Fibrous talc could be described as an 134110 20 asbestiform, yes. 134111 21 Q. Are asbestiform minerals silicates? 134111 21 Q. Are asbestiform minerals silicates? 134112 22 A. Yes. 134116 23 Q. Do you know how many amphibole mineral 13412 25 A. Quite a few. 13412 25 A. Quite a few. 13412 26 A. Not right off the top of my head. I bet 13412 1 Q. Do you have an estimate? 13412 2 A. Not right off the top of my head. I bet 13413 3 it's many. 13413 5 A. Yes. 13413 6 Q. More than 30? 13413 7 A. Yes. 13413 8 Q. When it comes time to give analysts in 13413 8 Q. (By Mr. Chachkes) Depend on what? 13422 19 A. It would depend on the number of 13422 20 structures that they saw. 13422 21 Q. Okay. Well, you know how you determine 13422 22 A. Yes. Yes. 13422 23 A. Yes. Yes. 13423 24 Q. And you know the number of structures you need to extrapolate to 10,000 per gram? Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 156 157 158412 1 A. Well, again, that varies. That can vary, 13413 2 A. Well, again, that varies. That can vary, 13413 5 A. Yes. 13413 7 A. Yes. 13413 6 Q. When it comes time to give analysts in 13413 7 A. Yes. 13413 8 Q. When it comes time to give analyzes in 13413 8 Q. When it comes time to give analyzes in 13413 9 your labs samples of J& Talc to analyze, do you		size, par				
1341:0 19 A. Fibrous talc could be described as an asbestiform, yes. 1341:10 20 asbestiform, yes. 1343:22 20 structures that they saw. 1343:22 21 Q. Okay. Well, you know how you determine structures; correct? 1343:28 21 A. Yes. 1343:28 22 Services there are? 1343:28 24 Species there are? 1343:28 24 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 154 154 154 154 15	134105 19 A. Fibrous talc could be described as an 134320 19 A. It would depend on the number of structures that they saw. 134111 21 Q. Are asbestiform minerals silicates? 134111 22 A. Yes. 134112 24 Species there are? 134112 25 A. Quite a few. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 154 154 154 154 154 154 156 13412 2 A. Not right off the top of my head. I bet 13412 3 it's many. 13412 3 A. Yes. 13412 4 Q. Do you have an estimate? 13412 5 A. Not right off the top of my head. I bet 13412 3 it's many. 13412 6 Q. Like more than 10? 13413 6 Q. More than 30? 13413 7 A. Yes. 13413 7 A. Yes. 13413 8 Q. When it comes time to give analysts in 13413 9 your labs samples of J&J talc to analyze, do you 13412 9 analyst analyzed an aliquot and didn't detect any	13:40:59 18	_		13:43:19 18		
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'age 41 of 59 F'ag(JCUIT 157 35 .09 1 Q. And were you part of that? 1 They should be because they're mixed prior 13:44:50 13:46:56 2 Yes. 2 to the actual analysis, you know, they're mixed in 13:44:51 Δ 13:46:59 3 Q. 3 What about would the same coefficient of preparation, the sample is. 13:47:02 13:44:51 4 variation apply to the difference in type of asbestos 13:47:03 4 Wouldn't you expect greater variation when 13:45:00 5 that the analysts are finding? 5 two analysts are looking at their own grids 13:45:06 13:47:06 6 Α. It should. Yes. 6 separately rather than comparing what they see under 13:47:12 13:45:08 7 Q. Okay. So you would expect that the ratio 7 the same grid? 13:47:15 13:45:10 of tremolite to anthophyllite in a bottle should 8 8 MS. O'DELL: Object to the form. 13:45:12 13:47:16 9 remain relatively constant amongst different analysts THE WITNESS: Yeah. That's a good 13:47:17 13:45:17 within 5 to 7 percent? 10 13:47:19 10 question. We're not doing chemistry here. 13:45:20 13:45:21 11 Yes. 13:47:23 11 Α. We're doing particle analysis. So in chemistry 13:45:21 12 If the numbers were completely out of 13:47:26 12 where you have something that is in, for Q. 13:45:29 13 whack with that, let's say there was 30 percent 13:47:29 13 instance, in solution, it's mixed in solution, 13:45:32 14 difference, would you believe you need to rerun the 13:47:31 14 it's dispersed in that solution by Brownian 13:45:35 15 results, or would you average the two? What would be 13:47:37 15 motion forces that keep it very random and 13:45:38 16 vour reaction? 13:47:39 16 mixed. 13:45:39 17 13:47:40 17 MS. O'DELL: Object to the form. Wherein a particle solution, if you want 18 THE WITNESS: Well, if the analysts 13:47:44 18 to call it that, you can have variation based on 13:45:40 13:45:44 19 weren't seeing the same thing -- I mean, this is 13:47:46 19 the particle size and a number of factors, but 13:47:50 20 13:45:48 20 the way we run the QC. For instance, if they the objective is to make the samples as 13:45:52 21 13:47:53 21 haven't found -- if you put them in the same homogeneous as possible. 13:45:56 **22** grid square and they haven't found the same 13:47:54 **22** So you would expect them, if they took a 13:45:59 23 number of structures there, then you 13:47:56 23 sample from the same bottle and they're both 13:46:03 24 typically -- we go back, we look at what was 13:47:58 24 homogeneous, you should get close to the same 13:46:05 25 there, we sit down with the analyst and try to 13:48:01 25 answer. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 160 1 understand why there is a difference like that, 1 (By Mr. Chachkes) Okay. In your 13:46:08 13:48:01 2 and then we resolve the difference at that 2 experience do two of your analysts looking at the 13:48:04 3 point. 3 same exact grid identify the same bundle-to-fiber 13:46:14 13:48:06 4 Now, that's the way the process typically 13:48:11 13:46:14 5 works. 5 I would say that most of the time they do. 13:46:17 13:48:12 13:46:17 6 (By Mr. Chachkes) Was your coefficient of 6 There may be some slight variations in the size of Q. 13:48:18 7 7 variation study analysts looking at the same grid the structure. It will be the same structure because 13:46:19 8 square? 8 you can see it in the images that they make, but they 13:48:25 13:46:22 9 A. 9 may have some slight variation in the size based on 13:48:30 13:46:22 13:46:22 10 13:48:33 10 the microscope that's being used because a couple of a Okay. Let's do it in a completely 13:46:25 11 different hypothetical. 13:48:37 11 the scopes we have have slightly different graticules 13:46:25 12 A. All right. in the scope so there may be a little difference in 13:48:42 12 13:46:26 13 The two analysts in your lab take aliquots 13:48:45 13 the length or the width, just a slight amount. 14 out of a bottle that are different, so they end up 13:48:47 14 But generally speaking, you would expect 13:46:29 13:46:31 15 looking at different grid squares. two analysts in your laboratory looking at the same 13:48:49 15 13:46:33 16 13:48:51 16 grid pattern to roughly identify the same A. Yes. 13:46:33 17 Q. Would you expect the results to be the 13:48:55 17 fiber-to-bundle ratio? 13:46:35 18 same? 13:48:56 18 Α. 13:46:36 19 MS. O'DELL: Object to the form. 13:48:58 19 Q. Roughly speaking, you would expect two 13:46:37 20 THE WITNESS: If the sample was 13:49:00 20 analysts looking at the same grid opening to --13:46:41 **21** homogeneous, let's hypothetically say that it is 13:49:08 21 roughly speaking, you would expect two analysts 13:46:46 22 completely homogeneous, then, yes, I would 13:49:10 22 looking at the same grid opening to identify the same 13:46:48 23 expect the same kinds of results. 13:49:14 23 asbestos type composition, like anthophyllite versus 13:49:17 24 13:46:50 24 tremolite versus no detect? (By Mr. Chachkes) Do you know whether or 13:46:51 25 13:49:20 25 Α. Yes. not bottles are homogeneous, samples are homogeneous? Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com

	Case 3:16-md-02738-MAS-RLS Document 9	733-9	Filed 05/07/19 Page 42 of 59 PageID:
13:49:20 1	Q. Okay. And that's based on the coefficient	110 13:51:42 1	the results from the non-MDL samples to look like the
13:49:22 2	of variation study?	13:51:46 2	MDL samples?
13:49:22 2	A. Yes, and also their training. So they're	13:51:46 2	A. I mean, if they're splits of the same
13:49:27	well versed in this.	13:51:51 4	sample or oh, they're different.
13:49:28 5	Q. Okay. You wouldn't know whether Lee Poye	13:51:51 5	Q. They're different. So you understand that
6	would expect the same thing?	13:51:53	the non-MDL samples are literally different bottles
7	THE REPORTER: I'm sorry, you would or	13:51:56 7	than the MDL samples?
8	wouldn't?	13:51:58	A. Yeah. I don't have an opinion on that. I
13:49:39	Q. (By Mr. Chachkes) You would not expect	13:52:04	don't have an opinion. I'd have to think about that.
13:49:40 10	you would not know whether Lee Poye would say the	13:52:06 10	Q. Would you expect the type of asbestos
13:49:41 11	same thing	13:52:08 11	found to be roughly the same?
12	MS. O'DELL: Object to the form.	13:52:11 12	A. Same answer.
13:49:42 13	Q. (By Mr. Chachkes) is that outside of	13:52:12 13	Q. Okay. No opinion?
13:49:43 14	your knowledge?	13:52:15 14	A. Yeah, right.
13:49:44 15	MS. O'DELL: Excuse me, I didn't mean to	13:52:16 15	Q. If you had an analyst who told you he had
13:49:46 16	interrupt you. Are you finished?	13:52:24 16	a nondetect for asbestos in a bottle, a sample from a
13:49:48 17	Object to the form.	13:52:28 17	bottle
13:49:49 18	THE WITNESS: All right. Well, as being a	13:52:28 18	A. Yes.
13:49:54 19	certified laboratory and having earned	13:52:29 19	Q would you expect another analyst
13:49:57 20	protocols, I would expect that their analysts	13:52:32 20	separately on a different day analyzing that same
13:49:59 21	would find the same kinds of things. There may	13:52:35 21	bottle to get a nondetect?
13:50:03 22	be some variation, but again, you know, there is	13:52:38 22	A. If the sample was prepared the same way
13:50:10 23	slight variation between laboratories.	13:52:47 23	and the detection limit was the same, I would expect
13:50:12 24	Q . (By Mr. Chachkes) Okay. Did you ever	13:52:52 24	similar results.
13:50:13 25	quantify the slight variation between laboratories?	13:52:53 25	Q . Okay. That goes to the reproducibility of
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	162	_	164
13:50:16	MS. O'DELL: Object to the form.	13:52:58	your
13:50:17 2	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did	13:52:59 2	your A. Yeah.
13:50:17 2 13:50:20 3	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did see variation, and that's in the report. But	13:52:59 2 13:52:59 3	your A. Yeah. Q. Okay. When you present what's more
13:50:17 2 13:50:20 3 13:50:25 4	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did see variation, and that's in the report. But again, it doesn't change what has been found.	13:52:59 2 13:52:59 3 13:53:05 4	your A. Yeah. Q. Okay. When you present what's more accurate of a representation of what's in a bottle of
13:50:17 2 13:50:20 3 13:50:25 4 13:50:30 5	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did see variation, and that's in the report. But again, it doesn't change what has been found. There were, I believe, a couple by TEM that we	13:52:59 2 13:52:59 3 13:53:05 4 13:53:09 5	your A. Yeah. Q. Okay. When you present what's more accurate of a representation of what's in a bottle of J&J talc, a single analysis or multiple analyses
13:50:17 2 13:50:20 3 13:50:25 4 13:50:30 5 13:50:33 6	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did see variation, and that's in the report. But again, it doesn't change what has been found. There were, I believe, a couple by TEM that we weren't able to verify, so, you know, it does	13:52:59 2 13:52:59 3 13:53:05 4 13:53:09 5 13:53:16 6	A. Yeah. Q. Okay. When you present what's more accurate of a representation of what's in a bottle of J&J talc, a single analysis or multiple analyses separately averaged?
13:50:17 2 13:50:20 3 13:50:25 4 13:50:30 5 13:50:33 6 13:50:35 7	MS. O'DELL: Object to the form. THE WITNESS: In this case, no. We did see variation, and that's in the report. But again, it doesn't change what has been found. There were, I believe, a couple by TEM that we weren't able to verify, so, you know, it does happen.	13:52:59 2 13:52:59 3 13:53:05 4 13:53:09 5 13:53:16 6 13:53:18 7	your A. Yeah. Q. Okay. When you present what's more accurate of a representation of what's in a bottle of J&J talc, a single analysis or multiple analyses separately averaged? MS. O'DELL: Object to the form.
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Page 43 of 59 PageID: 50011101 165 11 1 about adequacy or what follows regulatory methods. 13:56:04 1 bottle and someone else presented you, let's say, ten 13:54:22 2 I'm just saying what would you personally believe to 2 different analyses, separate analyses averaged, you 13:54:28 13:56:07 3 be more reliable, a single analysis from a bottle or 3 would say those are equally representative, the 13:56:10 13:54:30 multiple separate analyses from a bottle averaged? 13:56:13 4 standard definitions, the margin of error, same for 13:54:36 MS. O'DELL: Object to the form. 5 both? 5 13:54:39 13:56:16 6 THE WITNESS: I would say the single 6 MS. O'DELL: Object to the form. 13:56:17 13:54:40 7 sample based on the methodology that we use that 13:56:18 7 THE WITNESS: Well, the ten will give you 13:54:42 has been validated, published. A single sample 8 an average with a standard deviation, and if 8 13:54:45 13:56:21 9 should be fine. that single one falls within that, it's still 13:56:23 13:54:50 10 (By Mr. Chachkes) Do you expect that the 13:56:27 10 adequate analysis of that and it's still 13:54:51 13:54:52 11 multiple samples' average would be precisely the acceptable. 13:56:30 11 13:54:55 12 (By Mr. Chachkes) The question is would same? 13:56:30 12 13 A. I don't know about --13:56:32 13 those two examples have the same standard deviations 13:54:56 13:54:57 14 MS. O'DELL: Object to form. 13:56:35 14 and margins of error? 13:54:58 15 THE WITNESS: -- precisely the same, but 13:56:37 15 MS. O'DELL: Object to the form. THE WITNESS: Well, they won't. Of 13:54:59 16 they should be very similar. 13:56:38 16 13:55:01 17 13:56:39 17 (By Mr. Chachkes) But you're not going to course, you've got one that's got ten and one Q. 18 say that one's better in terms of a more accurate 13:56:41 18 has one. But I'm going by a method that's been 13:55:02 13:56:44 19 13:55:05 19 representation of what's in the bottle? validated as accepted as a standard method. You MS. O'DELL: Object to the form. 13:56:48 20 should be able to take one sample and it be 13:55:07 20 13:55:08 21 THE WITNESS: Well, now you've got an 13:56:50 21 representative, yes. 13:55:09 22 average. So you got an average of multiples, 13:56:50 22 (By Mr. Chachkes) When you say they won't 13:55:13 23 13:56:51 23 they should be very similar. have the same margin of error, the average of ten 13:55:14 24 13:56:54 24 would have a smaller margin of error; correct? If you take a single, you should get a 13:55:17 **25** 13:56:57 **25** Not -representative that is close to the average, you A. Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com 168 1 know, within one standard definition of the 1 MS. O'DELL: Object to the form. 13:55:20 13:56:57 2 average. So that's what I would expect. 13:56:59 2 THE WITNESS: -- necessarily. It could. 3 (By Mr. Chachkes) Okay. 3 It could. Yep. 13:55:24 13:57:00 And it's acceptable to have something (By Mr. Chachkes) Okay. In what instance 13:57:01 13:55:25 5 within two to three standard deviations. 5 would the ten done by the exact same procedure have a 13:55:27 13:57:01 6 I'm just asking a question about which 6 larger margin of error when averaged than the one? 13:55:30 13:57:04 7 7 would be more representative of what objectively is Well, the one's not going to -- the one is 13:55:31 8 in the bottle, one analysis or multiple analyses 13:57:10 8 the one. So what I'm saying is the one would fall 13:55:34 9 averaged, which would be more representative? 9 within the group of ten, so it would be 13:57:14 13:55:39 13:57:16 10 10 MS. O'DELL: Object to the form. representative. 13:55:41 13:55:42 11 THE WITNESS: Well, the single can be 13:57:17 11 I'm not asking questions about 13:55:43 12 13:57:18 12 representative, absolutely. representative in any way whatsoever. 13:55:44 13 (By Mr. Chachkes) And --13:57:20 13 I know. I'm trying to answer from a Q. 13:55:45 14 Α. I know you're saying more, I get that. 13:57:21 14 scientific point of view. 15 Q. Yeah. So if you want to be a scientist 13:57:23 15 13:55:47 16 13:57:25 16 about it, I would appreciate you under -- like, A. I understand that. 13:55:47 17 Q. Can you answer the question? 13:57:27 17 listen to the words I'm saying, okay? I'm talking 13:55:48 18 13:57:29 18 about the standard deviations, not what's Α. 13:55:48 19 Q. Which is more representative? 13:57:32 19 representative, just the math of standard deviations. 13:57:34 20 13:55:49 20 Α. Which is more representative? Α. Well, there's no --13:55:51 **21** 13:57:34 21 MS. O'DELL: Object --Q. 13:57:36 22 13:55:51 22 A. Any of those three, if there were three of THE WITNESS: -- no standard deviation in 13:55:54 23 them, would be representative. Any of them. 13:57:38 23 one. So you're trying to compare ten to one and 13:55:55 24 Okay. So if someone presented you a data 13:57:41 24 say standard deviation, and it's not working. 13:55:59 **25** for one analysis of the asbestos concentration for a 13:57:43 25 (By Mr. Chachkes) Okay. How about Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com

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13:57:43 1	comparing two averaged and 100 averaged	112	Q. This is a new, independent question.
13:57:46 2	A. Well, now all of a sudden now we're at two	13:59:12	
13:57:51 3	and ten instead of one and ten.	13:59:12	·
13:57:53 4	Q. 100.	13:59:13	_
13:57:54 5	A. Or 100. Yeah, no, I'm talking about you	13:59:14	_
13:57:55 6	want to know about one, and I'm telling you one is	13:59:19	
13:57:57	representative. That's my opinion.	13:59:19	_
13:57:58	Q. Just asking about standard deviations. Is	13:59:19	
13:58:01	it possible to talk about the math of standard	13:59:21	
10	deviations without saying the word representative?	13:59:21 10	
11	MS. O'DELL: Object to the form.	13:59:23 11	· · · · · · · · · · · · · · · · · · ·
12	THE REPORTER: Wait. I'm sorry, say it	13:59:23 12	
13	again, please.	13:59:25 13	·
13:58:07 14	Q. (By Mr. Chachkes) Is it possible to talk	13:59:28 14	_
13:58:08 15	about the math of standard deviations without using	13:59:31	
13:58:11 16	the word representative?	13:59:33 16	MS. O'DELL: Object to the form.
13:58:12 17	MS. O'DELL: Object to the form.	13:59:34 17	-
13:58:13 18	THE WITNESS: I'm not quite sure what	13:59:35 18	Q. (By Mr. Chachkes) Okay. Why can't you
13:58:18 19	you're getting at.	13:59:36	
13:58:18 20	Q. (By Mr. Chachkes) Okay. Every time I ask	13:59:36 20	
13:58:21 21	you about standard deviations, you say	13:59:39 21	have any numbers to work with.
13:58:23 22	representative. I'm just talking about the math. Do	13:59:40 22	Q. In what world is this hypothetical such
13:58:25 23	you understand that?	13:59:44 23	that the standard deviation is smaller for the two on
13:58:26 24	A. Yeah, but	13:59:48 24	average than the 100 on average?
13:58:26 25	MS. O'DELL: Object to the form.	13:59:49 25	MS. O'DELL: Object to the form.
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13:58:27 1	THE WITNESS: I mean as far as I	13:59:50	THE WITNESS: It could be the same.
13:58:31 2	mean, if you read back some of what I said, how	13:59:53	Standard deviation could be exactly the same.
13:58:34 3	many times did I say representative with that?	13:59:54	Q . (By Mr. Chachkes) Okay. Is there any
13:58:36 4	Was it quite a few?	13:59:55	situation where the two is going to have a lower
13:58:37 5	Q . (By Mr. Chachkes) It's a bit of a burden	13:59:57	deviation?
13:58:39 6	to put on the reporter.	13:59:57	A. A lower standard deviation?
13:58:40 7	A. I know, but I'm like I don't recall it	13:59:59	Q . Right.
13:58:41 8	being so much a part of the standard deviation, you	14:00:00	A. The two have a lower standard deviation?
13:58:44	know, answer.	14:00:07	
13:58:45 10	Q. Okay. Let me see if you can answer this	14:00:07	•
13:58:46 11	question without using the words representative or	11	
13:58:49 12	what's regulatory or just about a question about	14:00:07 12	, .
13:58:52 13	standard deviation. Listen to the question.	14:00:09 13	• •
13:58:54 14	MS. O'DELL: You may answer it any way you	14:00:11 14	
13:58:56 15	choose.	14:00:11	, , , ,
13:58:56 16	THE WITNESS: I know. I mean, when I say	14:00:13 16	
13:58:59 17 13:59:01 18	representative, I'm talking about that sample	14:00:15 17	
13:59:01 10	being representative of the bottle. Q . (By Mr. Chachkes) Okay.	14:00:15	
13:59:03 19 13:59:04 20	Q. (By Mr. Chachkes) Okay.A. That's what I'm talking about	14:00:17	
13:59:04 20 13:59:05 21	representative. I didn't say it was representative	14:00:19 21	
13:59:05 21	about standard deviation.	14:00:19 21	
23	Q. Okay.	14:00:29 23	•
13:59:08 24	A. I said it's representative of what is in	14:00:29 24	
13:59:09 25	the bottle.	14:00:32	, , ,
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	33	113	
14:00:32	A. Are we back to PLM?	14:02:44	Q. (By Mr. Chachkes) Okay. Do you have
14:00:34	Q. Well, there's a point counting method for	14:02:44 2	just sitting here today, without referring to the
14:00:37	PLM and SEM.	14:02:46	report, do you have an idea of what the highest
14:00:38 4	A. Yeah.	14:02:48 4	concentration of any bottle of MDL samples that you
14:00:38	Q. So you don't do SEM, right?	14:02:51 5	tested is?
14:00:39	A. No.	14:02:52 6	MS. O'DELL: Object to the form.
14:00:40	Q. Okay. All right. I'm going to skip that.	14:02:53 7	THE WITNESS: Again, I can't remember off
14:00:42	A. No. No. Yep, okay.	14:02:54	the top of my head right now, yeah.
14:00:43	Q. I'll skip that, that's fine.	14:02:55	Q. (By Mr. Chachkes) That's fine. It's not
14:00:49 10	So let's talk about the coefficient of	14:02:57 10	a memory test.
14:00:50 11	variation study. I'm just going to give it to you.	11	A. Yep.
14:00:52 12	A. Okay.	14:02:58 12	Q. For the coefficient of variation you
14:00:53 13	Q. We will mark it as an exhibit. What's the	14:03:00 13	prepared 25 grid openings; correct?
14:00:56 14	next exhibit? She has to mark it.	14:03:02 14	A. Yes.
15	A. Yep.	14:03:02 15	Q. And then you had four TEM analysts look at
16	(Defendants' Exhibit 3 was marked for	14:03:06 16	the exact same grids and analyze them for tremolite
14:01:22 17	identification.)	14:03:09 17	and anthophyllite asbestos; correct?
14:01:22 18	Q. (By Mr. Chachkes) All right. So is this	14:03:10 18	A. Yes. Yes.
14:01:26 19	the coefficient of variation study that you referred	14:03:11 19	Q. And so those four analysts were looking at
14:01:29 20	to earlier?	14:03:13 20	the exact same thing?
14:01:30 21	A. Yes.	14:03:14 21	A. Yes.
14:01:42 22	Q. And that's where you got that 5 to 7	14:03:14 22	Q. And these are the analysts who did the
14:01:45 23	percent deviation number from?	14:03:19 23	testing of the MDL samples?
14:01:46 24	A. Yes.	14:03:21 24	A. To my knowledge, yes.
14:01:46 25	Q. Is there a right answer and a wrong answer	14:03:22 25	Q. Do you consider the error rate that is
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14:01:51 1	as to whether someone you're looking at visually	14:03:28 1	your conclusion in the coefficient of variation study
14:01:51 1 14:01:54 2		14:03:28 1 14:03:31 2	
_	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form.		your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes.
14:01:54 2	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a	14:03:31 2	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets
14:01:54 2 14:01:56 3	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form.	14:03:31 2 14:03:33 3	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine
14:01:54 2 14:01:56 3 14:01:57 4	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes.	14:03:31 2 14:03:33 3 14:03:33 4	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient	14:03:31 2 14:03:33 3 14:03:33 4 14:03:37 5	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5 14:02:04 6	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes.	14:03:31 2 14:03:33 3 14:03:33 4 14:03:37 5 14:03:42 6	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes.
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5 14:02:04 6 14:02:05 7 14:02:10 8 14:02:13 9	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient	14:03:31 2 14:03:33 3 14:03:33 4 14:03:37 5 14:03:42 6 14:03:44 7 14:03:45 8 14:03:45 9	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5 14:02:04 6 14:02:05 7 14:02:10 8 14:02:13 9 14:02:14 10	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes.	14:03:31 2 14:03:33 3 14:03:33 4 14:03:37 5 14:03:42 6 14:03:44 7 14:03:45 8 14:03:45 9 14:03:49 10	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate?
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5 14:02:04 6 14:02:05 7 14:02:10 8 14:02:13 9 14:02:14 10 14:02:14 11	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form.
14:01:54 2 14:01:56 3 14:01:57 4 14:02:02 5 14:02:04 6 14:02:05 7 14:02:10 8 14:02:13 9 14:02:14 10 14:02:14 11 14:02:18 12	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes.
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material?	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material? A. Yes.	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways was it calculated?
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material? A. Yes. Q. And you spiked the J&J baby powder with	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways was it calculated? A. That's the way it was calculated according
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material? A. Yes. Q. And you spiked the J&J baby powder with enough asbestos to reach a concentration of about	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways was it calculated? A. That's the way it was calculated according to the formula we used.
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material? A. Yes. Q. And you spiked the J&J baby powder with enough asbestos to reach a concentration of about .3 percent?	14:03:31 2 14:03:33 3 14:03:33 4 14:03:37 5 14:03:42 6 14:03:45 8 14:03:45 9 14:03:45 10 14:03:51 11 14:03:52 12 14:03:58 15 14:03:59 16 14:04:01 17 14:04:02 18	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways was it calculated? A. That's the way it was calculated according to the formula we used. Q. Okay.
14:01:54	as to whether someone you're looking at visually under TEM is a fiber or bundle? MS. O'DELL: Object to the form. THE WITNESS: Is a fiber or a bundle a right answer or a wrong answer? I would say yes. Q. (By Mr. Chachkes) So is the coefficient of variation also can we also refer to it as an error rate? Is that the same thing? A. Yes. Q. And for this coefficient of variation you bought off-the-shelf J&J baby powder and added a known tremolite asbestos and anthophyllite asbestos standard reference material? A. Yes. Q. And you spiked the J&J baby powder with enough asbestos to reach a concentration of about .3 percent? A. Yes.	14:03:31	your conclusion in the coefficient of variation study to be a good one for a lab? A. Yes. Q. Looking specifically at the count sheets for tremolite, two of the analysts found nine structures in the sample and two found ten structures; correct? A. Yes. Q. And that's the 6 percent error rate you were talking about, the roughly 6 percent error rate? MS. O'DELL: Object to the form. THE WITNESS: That's part of the way it's calculated, yes. Q. (By Mr. Chachkes) Okay. What other ways was it calculated? A. That's the way it was calculated according to the formula we used. Q. Okay. A. Yep.
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		Case 3.	16-md-02738-MAS-RLS Document 9	733-9	Filed 05	5 /07/19 Page 46 of 59 PageID:
			30.	ļ14 <mark>,</mark>		
14:04:17	1	Q.	Let me	 	=	strative?
14:04:22	2	A.	I mean, the rate is based on the number of	14:06:22	2 A.	Yep.
14:04:24	3	structu	es that they counted. Now, they may have	14:06:22	3 Q.	And analyst number 3, A8-E2, that analyst
14:04:26	4	been a	fiber or a bundle, but it's the total number	14:06:27	detecte	d a fiber?
14:04:29	5	of struc	tures they counted. Yep.	14:06:28	5 A.	Yes.
14:04:31	6		MR. CHACHKES: Let's mark as the next	14:06:29	6 Q.	Okay. And then analyst number 4, A8-E2,
14:04:32	7	exhi	bit, what are we on, 4?	14:06:34		alyst detected a bundle?
	8	(3.3.3.	(Defendants' Exhibit 4 was marked for		B A.	Yes. Yep.
14:04:52	9	idan	tification.)	14:06:37		MS. O'DELL: Did you say A8-2 twice?
14:04:52		Q.	(By Mr. Chachkes) So what we have marked	14.06.37		THE WITNESS: This one.
			4 is a demonstrative we worked up so that	14:06:41		MR. CHACHKES: A8-E2.
14:04:55	=			_	=	
14:04:57			ee compare the analysts' work against each	14:06:43	_	THE WITNESS: Yeah. Is that grid square?
14:04:59		other.		14:06:44		MS. O'DELL: Yeah.
14:05:00			Can you just confirm that let's look,	14	-	THE WITNESS: Yeah.
14:05:03			ple, at analyst 1, what they found for grid	14:06:45		MS. O'DELL: Got it. And then for
14:05:10		opening	A8-E2?	14:06:49		(By Mr. Chachkes) Okay. So what we've
14:05:16	17	A.	Which analysis is this? Which sample is	14:06:51	done is	we've summarized these grid openings in this
14:05:17	18	this?		14:06:55	demons	strative in that way
14:05:18	19	Q.	So this is you've gone to the appendix,	19	A.	Right.
14:05:21	20	right, of	Rigler 3.	14:06:56	Q.	do you follow me so far?
14:05:26		A.	What? Where are we	14:06:58	=	Yes.
14:05:29		Q.	So Rigler 3 is the coefficient of	14:06:58	=	And your analysts are trained to
14:05:32		variation		14:07:00 2:		ish between a fiber and a bundle; right?
14:05:33		A.	Okay.	14:07:02		Yes.
					_	
14:05:33	25	Q.	And if you go into there are sheets for	14:07:02		And you ran this experiment to detect how
		Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com		Atlanta F	Reporters, Inc.866-344-0459 www.atlanta-reporters.com
			178	,		180
14:05:38	1		analysts; right?		good yo	
14:05:38 14:05:39	1 2		analysts; right? Yeah, these are the count sheets, right.			180 our analysts were at identifying the same
	=	different	analysts; right?		good yo	180
14:05:39	2	different A. Q.	analysts; right? Yeah, these are the count sheets, right.	14:07:09	good yo	180 our analysts were at identifying the same
14:05:39	2	different A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst	14:07:09 14:07:09 14:07:10	good yo thing?	180 our analysts were at identifying the same MS. O'DELL: Object to the form.
14:05:49 14:05:41 14:05:48	2 3 4	different A. Q. and you	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2	14:07:09 14:07:09 14:07:10 14:07:11	good your thing? thing? Q.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes?
14:05:39 14:05:41 14:05:48 14:05:51	2 3 4 5	different A. Q. and you A.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay. you see that the structure identified	14:07:09 14:07:09 14:07:10 14:07:11	1 good ye 2 thing? 3 4 Q. 5 A.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes.
14:05:39 14:05:41 14:05:48 14:05:51 14:05:51	2 3 4 5 6	different A. Q. and you A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay. you see that the structure identified	14:07:09 14:07:09 14:07:10 14:07:11 14:07:11	1 good yo 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst:	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your
14:05:39 14:05:41 14:05:48 14:05:51 14:05:51	2 3 4 5 6	different A. Q. and you A. Q. was a bu A.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay.	14:07:09 14:07:09 14:07:10 14:07:11 14:07:11	1 good yo 2 thing? 3 Q. 5 A. 6 Q. 7 analyst: 8 structure	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54	2 3 4 5 6 7 8 9	different A. Q. and you A. Q. was a bu A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay. you see that the structure identified andle Okay. right?	14:07:09 14:07:09 14:07:10 14:07:11 14:07:11 14:07:14	1 good yo 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form.
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:54	2 3 4 5 6 7 8 9	different A. Q. and you A. Q. was a bu A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay. you see that the structure identified andle Okay. right? Yes.	14:07:09 14:07:09 14:07:10 14:07:11 14:07:11 14:07:14 14:07:18	good your thing? thing? thing? Q. A. Q. q. analyst: structure	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:55 14:05:55	2 3 4 5 6 7 8 9 10	different A. Q. and you A. Q. was a bu A. Q. A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you	14:07:09 14:07:09 14:07:10 14:07:11 14:07:14 14:07:16 14:07:18 14:07:19 14:07:20	good you thing? thing? understanding thing? understanding thing? understanding thing? understanding thing? understanding thing t	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the isensus that it was tremolite.
14:05:39 14:05:41 14:05:48 14:05:51 14:05:51 14:05:54 14:05:54 14:05:56 14:05:56	2 3 4 5 6 7 8 9 10 11	different A. Q. and you A. Q. was a bu A. Q. A. Q. see that	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right?	14:07:09 14:07:09 14:07:10 14:07:11 14:07:14 14:07:16 14:07:18 14:07:20 14:07:22	good your thing? thing? thing? Control thing? A. Control thing? A. Control thing? A. Control thing?	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the isensus that it was tremolite. (By Mr. Chachkes) This is not the
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:55 14:05:56 14:05:58	2 3 4 5 6 7 8 9 10 11 12 13	different A. Q. and you A. Q. was a bu A. Q. A. Q. see that	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right.	14:07:09 14:07:09 14:07:10 14:07:11 14:07:14 14:07:14 14:07:19 14:07:20 14:07:22 11 14:07:23	good your good y	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the asensus that it was tremolite. (By Mr. Chachkes) This is not the m.
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14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:55 14:05:56 14:05:56 14:06:00 14:06:00	2 3 4 5 6 7 8 9 10 11 12 13 14 15	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes.	14:07:09 14:07:10 14:07:11 14:07:11 14:07:14 14:07:14 14:07:18 14:07:19 14:07:20 11 14:07:23 11 14:07:23 11 14:07:23 11 14:07:23 11	1 good you 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 0 1 cor 2 Q. 3 questio 4 A. 6 Q.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the in. But that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:55 14:05:56 14:05:56 14:06:00 14:06:00 14:06:07	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes. Okay. And it says in the upper left-hand	14:07:09 14:07:09 14:07:10 14:07:11 14:07:11 14:07:16 14:07:16 14:07:20 14:07:23 14:07:23 14:07:23 14:07:27 14:07:30 1	1 good you 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 Q. 1 cor 2 Q. 3 questio 4 A. 5 we're 6 Q. 7 grid ope	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the insensus that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11 denings your analysts only came to a consensus
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14:05:39 14:05:41 14:05:41 14:05:51 14:05:53 14:05:54 14:05:55 14:05:56 14:05:56 14:06:00 14:06:00 14:06:00 14:06:07 14:06:09 14:06:09	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the A. Corner a A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes. Okay. And it says in the upper left-hand malyst 2? Yes. Okay. That for A8-E2 that analyst	14:07:09 14:07:09 14:07:09 14:07:11 14:07:11 14:07:14 14:07:16 14:07:19 14:07:20 14:07:23 14:07:23 14:07:23 14:07:23 14:07:25 14:07:30 14:07:30 14:07:36 15 14:07:39 20	1 good you 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 0. 1 cor 2 Q. 3 questio 4 A. 5 we're of 6 Q. 7 grid ope 8 on the of 9 Q. 1 A.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the insensus that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11 grings your analysts only came to a consensus type of structure they found only once? What's that? Out of 11 grid openings? Right.
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14:05:39 14:05:41 14:05:51 14:05:51 14:05:53 14:05:54 14:05:54 14:05:55 14:05:56 14:05:56 14:06:00 14:06:00 14:06:00 14:06:01 14:06:10 14:06:10	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the A. Q. corner a A. Q. identified	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes. Okay. And it says in the upper left-hand malyst 2? Yes. Okay. That for A8-E2 that analyst d a fiber? Okay.	14:07:09 14:07:09 14:07:10 14:07:11 14:07:14 14:07:14 14:07:18 14:07:19 14:07:20 14:07:23 14:07:23 14:07:23 14:07:23 14:07:30	1 good yo 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 1 cor 2 Q. 3 questio 4 A. 5 we're 6 Q. 7 grid ope 8 on the i 9 Q. 1 A. 2 Q. 1 A. 2 Q.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the insensus that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11 enings your analysts only came to a consensus type of structure they found only once? What's that? Out of 11 grid openings? Right. No. Okay. Look at the demonstrative.
14:05:39 14:05:41 14:05:48 14:05:51 14:05:51 14:05:54 14:05:54 14:05:54 14:05:56 14:05:56 14:05:56 14:06:00 14:06:00 14:06:01 14:06:10 14:06:11 14:06:17 14:06:18	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the A. Q. corner a A. Q. identified A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes. Okay. And it says in the upper left-hand malyst 2? Yes. Okay. That for A8-E2 that analyst d a fiber? Okay. Is that correct? Uh-huh.	14:07:09 14:07:09 14:07:09 14:07:10 14:07:11 14:07:14 14:07:16 14:07:16 14:07:19 14:07:20 11 14:07:23 11 14:07:23 11 14:07:30 11 14:07:30 11 14:07:30 11 14:07:30 11 14:07:30 12 14:07:30 12 14:07:30	1 good you 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 0. 1 cor 2 Q. 3 questio 4 A. 5 we're o 6 Q. 7 grid ope 8 on the structur 9 Q. 1 A. 0 Q. 1 A. 0 Q. 1 A. 0 Q.	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the insensus that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11 genings your analysts only came to a consensus type of structure they found only once? What's that? Out of 11 grid openings? Right. No. Okay. Look at the demonstrative. Okay. For A8-E2 your analysts did not find the
14:05:39 14:05:41 14:05:48 14:05:51 14:05:53 14:05:54 14:05:55 14:05:56 14:05:56 14:06:00 14:06:00 14:06:00 14:06:01 14:06:10 14:06:10 14:06:10 14:06:10	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	different A. Q. and you A. Q. was a bu A. Q. see that A. Q. that the A. Q. corner a A. Q. identified A. Q.	analysts; right? Yeah, these are the count sheets, right. Right. So if you go to the first analyst go to A8-E2 Okay you see that the structure identified andle Okay right? Yes. Okay. And then in my demonstrative you s a bundle; right? Right. And then you go to analyst number 2 is second page? Yes. Okay. And it says in the upper left-hand analyst 2? Yes. Okay. That for A8-E2 that analyst d a fiber? Okay. Is that correct?	14:07:09 14:07:09 14:07:09 14:07:11 14:07:11 14:07:14 14:07:16 14:07:19 14:07:20 14:07:23 14:07:23 14:07:23 14:07:23 14:07:25 14:07:30	1 good you 2 thing? 3 4 Q. 5 A. 6 Q. 7 analyst: 8 structur 9 1 cor Q. 1 A. 6 Q. 7 grid ope 8 on the structur 1 Q. 1 A. 2 Q. 3 A. 4 Q. 5 same structur	MS. O'DELL: Object to the form. (By Mr. Chachkes) Is that a yes? That would be yes. But out of the 11 grid openings, your sonly came to consensus on the type of re they found only once? MS. O'DELL: Object to the form. THE WITNESS: Every time they came to the insensus that it was tremolite. (By Mr. Chachkes) This is not the insensus that is the answer. This is what concerned about here, is it asbestos. The question before you is: Out of 11 grings your analysts only came to a consensus type of structure they found only once? What's that? Out of 11 grid openings? Right. No. Okay. Look at the demonstrative. Okay.

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	4	file ou?	35	112	_		
14:07:52	1	fiber?		14:09:15	1		MS. O'DELL: Object to the form.
14:07:52	2	A.	Uh-huh.	14:09:16	2	_	THE WITNESS: No.
14:07:53	3	Q.	For A8-E4 they all agree it's a fiber?	14:09:16	3	Q.	(By Mr. Chachkes) Why?
14:07:57	4	A.	Uh-huh.	14:09:17	4	A.	It's not.
14:07:57	5	Q.	For A8-E5 they did not agree whether it	14:09:18	5	Q.	Why?
14:08:00	6	was a bu	indle or fiber.	14:09:18	6	A.	Well, the max I can see here is it might
14:08:02	7	A.	Okay.	14:09:23	7	be it	might be maybe 50 percent, maybe, if that's
14:08:03	8		MS. O'DELL: And feel free to check if you	14:09:28	8	what it	is.
14:08:05	9	need	to check the data. It's in the	14:09:28	9	Q.	Okay.
14:08:08	10	dem	onstrative.	14:09:29	10	A.	And I don't agree with it, okay, because
14:08:08	11	Q.	(By Mr. Chachkes) Yeah. I mean, if you	14:09:32	11	the obje	ective here is is it asbestos? Is it
14:08:09		think we	're putting a fraudulent	14:09:35	12	asbestif	form asbestos? The answer is yes.
	13	A.	No	14:09:37	13	Q.	So a 50 percent error rate in your mind is
	14	Q.	in front of you	14:09:39		not high	
14:08:13		A.	no.	14:09:40			MS. O'DELL: Object to the form.
14:08:13			MS. O'DELL: I think mistakes can happen.	14:09:41			THE WITNESS: No, this is not
14.00.13	17		THE WITNESS: I'm sure they can.	14:09:43			MS. O'DELL: Give me a moment.
14:08:15			MS. O'DELL: I think probably the others	14:09:45			Object to the form.
14:08:15		hani	pen, too, but I'm not suggesting that in this	14:09:46			Go ahead.
14:08:18			ation.	14:09:46			THE WITNESS: I mean, again, the objective
14:08:18		Q.	(By Mr. Chachkes) So you can see for the	14:09:48			e is to determine if this is asbestos, is
14:08:20			penings on the demonstrative we put before	14:09:51			asbestiform. And the answer to that is
14:08:23			re was only one instance where the analysts	14:09:54			You're going to have some variation based
14:08:27			n the fiber structure.	14:09:56			what they see in the microscope, all right,
14:08:30	25	A.	Okay.	14:10:01	25	and	that is totally acceptable.
		Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com			Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com
			402				184
			182				104
14:08:31	1	Q.	Right?	14:10:03	1	Q.	(By Mr. Chachkes) Okay. When you say
14:08:31 14:08:32	1 2	Q. A.		14:10:03 14:10:05			
	=		Right?		=		(By Mr. Chachkes) Okay. When you say
14:08:32	2	A. Q.	Right? Okay.	14:10:05	2	totally a	(By Mr. Chachkes) Okay. When you say cceptable, what do you mean by that?
14:08:32 14:08:32	2	A. Q.	Right? Okay. And did you did you determine an error your analysts' ability to determine	14:10:05 14:10:06	3 4	totally a	(By Mr. Chachkes) Okay. When you say cceptable, what do you mean by that? Well, it's acceptable based on what the
14:08:32 14:08:32 14:08:39	2 3 4	A. Q. rate for	Right? Okay. And did you did you determine an error your analysts' ability to determine	14:10:05 14:10:06 14:10:13	3 4	A. asbestif	(By Mr. Chachkes) Okay. When you say cceptable, what do you mean by that? Well, it's acceptable based on what the form is, according to the definition. All
14:08:32 14:08:32 14:08:39 14:08:42	2 3 4 5	A. Q. rate for y	Right? Okay. And did you did you determine an error your analysts' ability to determine ogy?	14:10:05 14:10:06 14:10:13 14:10:16	2 3 4 5 6	A. asbestif	(By Mr. Chachkes) Okay. When you say cceptable, what do you mean by that? Well, it's acceptable based on what the form is, according to the definition. All liber, bundle, .5 or greater, 5-to-1 aspect every one of these fits that.
14:08:32 14:08:39 14:08:42 14:08:43 14:08:44	2 3 4 5 6 7	A. rate for v morphole A. Q.	Right? Okay. And did you did you determine an error your analysts' ability to determine ogy? No. If you did based on this, it would be a	14:10:05 14:10:06 14:10:13 14:10:16 14:10:22	2 3 4 5 6 7	A. asbestif right. F ratio. E	(By Mr. Chachkes) Okay. When you say ecceptable, what do you mean by that? Well, it's acceptable based on what the form is, according to the definition. All eiber, bundle, .5 or greater, 5-to-1 aspect every one of these fits that. So well, that's not quite correct;
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14:08:32 14:08:32 14:08:39 14:08:42 14:08:43 14:08:44 14:08:47	2 3 4 5 6 7 8 9	A. rate for v morphole A. Q.	Right? Okay. And did you did you determine an error your analysts' ability to determine ogy? No. If you did based on this, it would be a gh error rate, wouldn't it? MS. O'DELL: Object to the form.	14:10:05 14:10:06 14:10:13 14:10:16 14:10:22	2 3 4 5 6 7 8 9	A. asbestifing right. Fratio. E. Q. right? A asbestos	(By Mr. Chachkes) Okay. When you say eceptable, what do you mean by that? Well, it's acceptable based on what the form is, according to the definition. All liber, bundle, .5 or greater, 5-to-1 aspect every one of these fits that. So well, that's not quite correct; 8-G4, three analysts found no detectable and only one found asbestos; right?
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			116		
14:11:08		bjectively a right answer to whether it's a	14:12:39	1	your question.
14:11:11	fiber or b	oundle, how can something be both a fiber	14:12:39	2	THE WITNESS: Numerous times.
14:11:14	and a bu	ndle?	14:12:41	3	MS. O'DELL: Excuse me. Three or four
14:11:15	A.	As I say, the analyst, their job is to	14:12:42	4	times. If you want to waste your time, but
14:11:22	figure o	ut whether it meets the definition, all	14:12:45	5	don't badger the witness.
14:11:24	right? I	iber or bundle, it meets the specification	14:12:46	6	MR. CHACHKES: I'm not going to badger the
14:11:28	for whe	ther it is asbestos, asbestiform asbestos.		7	witness
14:11:33	Q.	Okay. Putting	14:12:50	8	MS. O'DELL: You are badgering the
14:11:34	A	That's what we're concerned about here.	14:12:50	9	witness.
14:11:36 10	Q.	Putting aside whether there's what they		10	MR. CHACHKES: clear answer.
14:11:38 11	identified	as asbestiform, I'm just talking about the	14:12:50	11	MS. O'DELL: He's answered your question
14:11:41 12	morphol	ogy.	14:12:51	12	very clearly.
14:11:41	A	Sure.	14:12:52	13	MR. CHACHKES: I'm going to ask the same
14:11:42	Q.	For A8-E2, two analysts must have gotten	14:12:53	14	question again. You can tell me I'm not allowed
14:11:46 15		and two must have gotten it right.	14:12:56		to, and I'll move on.
14:11:48 16	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MS. O'DELL: Object to the form.		16	MS. O'DELL: I'm telling you that the
14:11:49 17		THE WITNESS: No. They all got it right.		17	rules require that you not badger the witness.
14:11:50 18	Q.	(By Mr. Chachkes) Okay. So you don't		18	That's what I'm stating to you.
14:11:50 19		ether an analyst correctly identifies	14:13:01		MR. CHACHKES: I'm level voice. It's a
14:11:54 20		ng as a bundle or fiber?	14:13:01		calm question. It's a serious question. So.
14:11:56 21	Sometim	MS. O'DELL: Object to the form.	14:13:02		MS. O'DELL: That doesn't mean you're not
14:11:56 22		MS. PARFITT: Misstates his testimony.	14:13:04		badgering the witness, as you are well aware.
14:11:59 23		THE WITNESS: What I've said is it meets	14:13:08		MR. CHACHKES: I believe I'm entitled to a
14:11:59 23	tho	definition. That's what is of concern to	14:13:09	=	clear answer to a clear question.
14:12:00 24 14:12:03 25		That's the most important part.	14:13:11		MS. O'DELL: You're not entitled to the
14:12:03		· · · · · · · · · · · · · · · · · · ·	14:13:13	23	
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14:12:04	Q.	(By Mr. Chachkes) The question is do you		1	answer that you want. You're entitled to an
14:12:06	care whe	(By Mr. Chachkes) The question is do you ether one of your analysts misidentifies a	14:13:13	2	answer that you want. You're entitled to an answer, and he's answered your question.
14:12:06 2 14:12:09 3	care whe	(By Mr. Chachkes) The question is do you ether one of your analysts misidentifies a s a fiber or a fiber as a bundle?	14:13:13	2	answer that you want. You're entitled to an answer, and he's answered your question. MR. CHACHKES: Let's maybe I don't
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14:13:57		MS. O'DELL: Object to the form. He's	14:16:02	1	Q.	(By Mr. Chachkes) Okay. Meaning some
14:13:59		wered your question.	14:16:06	2	of strik	
14:13:59		THE WITNESS: I've already answered the	14:16:06	3		Does a you understand what a cleavage
14:14:01		stion.	14:16:10	4	fragment	
14:14:01		MR. CHACHKES: Okay. We're going to add	14:16:11	5	Α.	Yes.
14:14:03		to the list of questions for the	14:16:11	6	Q.	Would you call a cleavage fragment
14:14:04	mag	<mark>gistrate.</mark>	14:16:13	7	asbestos ²	?
14:14:09	Q.	(By Mr. Chachkes) Does whether you	14:16:13	8	Α.	If it was of the size and shape that met
14:14:12	identify	something as a bundle or a fiber affect the	14:16:16	9	the regu	llatory definition, yes.
14:14:15	concent	ration values in your report?	14:16:18	10	Q.	Do cleavage fragments have a different
14:14:19	A.	No.	14:16:21	11	particle s	ize distribution than asbestos?
14:14:19 12	Q.	Not at all?	14:16:26	12		MS. O'DELL: Object on the form.
14:14:24	A.	No.	14:16:27	13		THE WITNESS: They can.
14:14:24	Q.	Does the Rigler 4 demonstrative which is	14:16:29	14	Q.	(By Mr. Chachkes) Okay. Using when I
14:14:32	derived	from your coefficient of variation study lead	14:16:31	15	say geolo	ogical definition, I've heard you guys talk
14:14:36	you to b	elieve that maybe the TEM is not the best	14:16:34	16	about	
14:14:39 17	apparati	us for resolving morphology?	14:16:34	17	Α.	Yes.
14:14:41	()	No.	14:16:34		Q.	I'm going to use your phrase geological
14:14:42 19		MS. O'DELL: Object to the form.	14:16:37	19	definition	of asbestos.
14:14:43 20		THE WITNESS: It is the best.	14:16:39		Α.	All right.
14:14:45 21		(By Mr. Chachkes) No evidence will shake	14:16:39		Q.	Using a geological definition of asbestos,
14:14:46 22		that opinion?	14:16:42		•	nave a cleavage fragment that is greater than
14:14:47 23		No.	14:16:46			spect ratio?
14:14:47 24		Okay. Let's talk about asbestos. Ready?	14:16:48		5 to 1 us	MS. O'DELL: Object to the form.
14:14:47 25		I thought that's what we've been talking	14:16:46			THE WITNESS: In my opinion, the answer to
14:14:56 23			14:16:49	23	Atlanta Do	
	Allania N	eporters, Inc.866-344-0459 www.atlanta-reporters.com			Aliania Ne	porters, Inc.866-344-0459 www.atlanta-reporters.com
		100				402
	about	190		4	that	192
14:14:58 1	about.		14:16:52	1		is yes.
14:14:58 2	Q.	Completely different topic.	14:16:53	2	Q.	is yes. (By Mr. Chachkes) Okay. And using the
14:14:58 2 14:14:59 3	Q. A.	Completely different topic. All right.	14:16:53 14:16:56	2	Q. geologica	is yes. (By Mr. Chachkes) Okay. And using the Il definition of asbestos as you have used
14:14:58 2 14:14:59 3 14:15:00 4	Q. A. Q.	Completely different topic. All right. You talk about the Blount paper in your	14:16:53 14:16:56 14:17:02	2 3 4	Q. geologica it, there o	is yes. (By Mr. Chachkes) Okay. And using the Il definition of asbestos as you have used can be an asbestiform particle that has an
14:14:58 2 14:14:59 3 14:15:00 4 14:15:02 5	Q. A. Q. expert r	Completely different topic. All right. You talk about the Blount paper in your eport; correct?	14:16:53 14:16:56 14:17:02 14:17:06	2 3 4 5	Q. geologica it, there o	is yes. (By Mr. Chachkes) Okay. And using the old definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1?
14:14:58 2 14:14:59 3 14:15:00 4 14:15:02 5 14:15:04 6	Q. A. Q. expert r. A.	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes.	14:16:53 14:16:56 14:17:02	2 3 4 5 6	Q. geologica it, there o	is yes. (By Mr. Chachkes) Okay. And using the old definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form.
14:14:58 2 14:14:59 3 14:15:00 4 14:15:02 5 14:15:04 7	Q. A. Q. expert r A. Q.	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a	14:16:53 14:16:56 14:17:02 14:17:06	2 3 4 5 6 7	Q. geologica it, there of aspect ra	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what
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14:14:58	Q. A. Q. expert r. A. Q. particle A.	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a size distribution? Yes.	14:16:53 14:16:56 14:17:02 14:17:06 14:17:08 14:17:10	2 3 4 5 6 7	Q. geologica it, there of aspect ra	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what of particle? (By Mr. Chachkes) Asbestiform particle.
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14:14:58	Q. A. Q. expert r. A. Q. particle A. Q. there ar distribut a charace asbestos A. process	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a size distribution? Yes. Okay. And out in the published literature e publications that have particle sized ions that strike that. That there's a characteristic there is steristic particle size distribution for s; is that correct? Well, depending on how that sample's been	14:16:53 14:16:56 14:17:02 14:17:08 14:17:10 14:17:11 14:17:13 14:17:15 14:17:17 14:17:22 14:17:29 14:17:29	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. geologica it, there of aspect ra kind Q. A. Q. A. would be Q. you've	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what of particle? (By Mr. Chachkes) Asbestiform particle. Smaller than 3-to-1? Yeah. I mean, from a regulatory standpoint, it e 3-to-1, 5-to-1. So Yeah. I don't want to interrupt. So for just a geological definition as as
14:14:58	Q. A. Q. expert r. A. Q. particle A. Q. there ar distribut a charace asbestos A. process sizes, de	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a size distribution? Yes. Okay. And out in the published literature epublications that have particle sized ions that strike that. That there's a characteristic there is exteristic particle size distribution for six is that correct? Well, depending on how that sample's been seed, you're going to have different fiber	14:16:53 14:16:56 14:17:02 14:17:08 14:17:10 14:17:13 14:17:14 14:17:15 14:17:17 14:17:22 14:17:29 14:17:31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. geologica it, there can be a spect rank kind Q. A. Q. A. would be Q. you've A. Q.	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what of particle? (By Mr. Chachkes) Asbestiform particle. Smaller than 3-to-1? Yeah. I mean, from a regulatory standpoint, it e 3-to-1, 5-to-1. So Yeah. I don't want to interrupt. So for just a geological definition as as Yeah.
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14:14:58	Q. A. Q. expert r. A. Q. particle A. Q. there ar distribut a charace asbestos A. process sizes, d You're dedifferer Q. is asbestoparticle	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a size distribution? Yes. Okay. And out in the published literature e publications that have particle sized ions that strike that. That there's a characteristic there is steristic particle size distribution for s; is that correct? Well, depending on how that sample's been sed, you're going to have different fiber ifferent they're going to be different. going to have different aspect ratios and int sizes. For any given sample that everyone agrees tos, it's going to have a characteristic size distribution; right?	14:16:53 14:16:56 14:17:02 14:17:08 14:17:10 14:17:11 14:17:15 14:17:15 14:17:17 14:17:22 14:17:21 14:17:31 14:17:34 14:17:39 14:17:42 14:17:45 14:17:46 14:17:46	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. geologica it, there of aspect ra kind Q. A. Q. A. would be Q. you've A. Q. have used geologica below 3-to	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what of particle? (By Mr. Chachkes) Asbestiform particle. Smaller than 3-to-1? Yeah. I mean, from a regulatory standpoint, it e 3-to-1, 5-to-1. So Yeah. I don't want to interrupt. So for just a geological definition as as Yeah. It's just a geological definition as you d that phrase, can there be, under the all definition, asbestos with an aspect ratio to-1? MS. O'DELL: Object to the form. THE WITNESS: Well, the geological
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14:14:58	Q. A. Q. expert r. A. Q. particle A. Q. there ar distribut a charace asbestos A. process sizes, d You're differen Q. is asbestoparticle	Completely different topic. All right. You talk about the Blount paper in your eport; correct? Yes. Okay. In the Blount paper there's a size distribution? Yes. Okay. And out in the published literature e publications that have particle sized ions that strike that. That there's a characteristic there is steristic particle size distribution for s; is that correct? Well, depending on how that sample's been sed, you're going to have different fiber ifferent they're going to be different. going to have different aspect ratios and int sizes. For any given sample that everyone agrees tos, it's going to have a characteristic size distribution; right?	14:16:53 14:16:56 14:17:02 14:17:08 14:17:10 14:17:11 14:17:15 14:17:15 14:17:17 14:17:22 14:17:21 14:17:31 14:17:34 14:17:39 14:17:42 14:17:45 14:17:46 14:17:46	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. geologica it, there of aspect ra kind Q. A. Q. A. would be Q. you've A. Q. have used geologica below 3-the definity with	is yes. (By Mr. Chachkes) Okay. And using the all definition of asbestos as you have used can be an asbestiform particle that has an tio of below 3-to-1? MS. O'DELL: Object to the form. THE WITNESS: Are you talking about what of particle? (By Mr. Chachkes) Asbestiform particle. Smaller than 3-to-1? Yeah. I mean, from a regulatory standpoint, it e 3-to-1, 5-to-1. So Yeah. I don't want to interrupt. So for just a geological definition as as Yeah. It's just a geological definition as you d that phrase, can there be, under the all definition, asbestos with an aspect ratio to-1? MS. O'DELL: Object to the form. THE WITNESS: Well, the geological

	Case 3:16-md-02738-MAS-RLS Document 9	733-9 	F iled 05/07/19 Page 50 of 59 Page<u>JD</u>: ——
	193 352		195
14:17:58 1	in your hand kinds of particles. So in most	14:20:00 1	part would still be gold?
14:18:03	cases of that size, you know, you may see some	14:20:01 2	A. Correct.
14:18:08	that are in that range, but you have to use the	14:20:01 3	Q. And I can keep going doing that until I
14:18:09 4	PLM to see them, probably.	14:20:05 4	had very small pieces and they still would be gold?
14:18:11 5	Q. (By Mr. Chachkes) Okay. If I took, under	14:20:07 5	A. Sure.
14:18:14 6	the geological definition, a tremolite particle that	14:20:08 6	Q. You're saying the same does not apply to
14:18:17 7	had a 6-to-1 aspect ratio and I snapped it into two	7	asbestos, that I could break asbestos and at a
14:18:21 8	3-to-1 aspect ratio particles, under the geological	14:20:10	certain point it's not asbestos?
14:18:24	definition those two particles would still be	14:20:11 9	MS. O'DELL: Object to the form.
14:18:27 10	asbestos; right?	14:20:12 10	THE WITNESS: Well, I mean, chemically it
14:18:28 11	A. Yes. I mean, if they were yeah. They	14:20:15 11	still is. Yes.
14:18:32 12	were on a yes, they would be.	14:20:17 12	Q. (By Mr. Chachkes) Okay. You use so I
14:18:34 13	Q. Let me ask it	14:20:26 13	didn't see the phrase asbestiform talc in your
14:18:35 14	A. If they were equally divided.	14:20:28 14	report; is that correct?
14:18:36 15	Q. Yeah. Let me just ask a better question	14:20:30 15	A. I don't it might be in there, yeah, I
14:18:38 16	to be fair.	14:20:33 16	think it is. Yeah.
14:18:39 17	If I had a tremolite particle that was	14:20:34 17	Q . Okay. In your report at page 8 you talk
14:18:42 18	that had a 6-to-1 aspect ratio and I snapped it into	14:20:37 18	about fibrous talc, you found fibrous talc in
14:18:46 19	three parts perfectly evenly so that each had a	14:20:42 19	98 percent of the Italian and Vermont talc samples by
14:18:50 20	2-to-1 aspect ratio, under the geological definition	14:20:45 20	ISO 22262. Does that ring a bell?
14:18:53 21	each of those would still be asbestos; right?	14:20:48 21	A. Yes.
14:18:54 22	MS. O'DELL: Object to the form.	14:20:48 22	Q. What is your definition of fibrous talc?
14:18:56 23	THE WITNESS: On a microscopic scale they	14:20:50 23	A. It would be talc that had that aspect
14:18:58 24	wouldn't be. I mean, they wouldn't fit the	14:20:52 24	ratio of 5-to-1.
14:19:00 25	regulatory definition.	14:20:53 25	Q. You would require parallel sides as well?
14.19.00 20	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	14.20.33	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
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14:19:01 2 14:19:02 3 14:19:08 4 14:19:09 5 14:19:11 6 14:19:17 8 14:19:17 8 14:19:21 10 14:19:22 10 14:19:24 11 14:19:28 12 14:19:32 13 14:19:35 14 14:19:37 15 14:19:39 17 14:19:41 18 14:19:43 19 14:19:45 20 14:19:50 21 14:19:52 22 14:19:54 23	Q. (By Mr. Chachkes) I'm talking about the geological. A. I mean MS. O'DELL: Object to the form. THE WITNESS: Yeah, I don't I mean, I think on a microscale versus, you know, what I can see in my hand. See what I'm saying? Q. (By Mr. Chachkes) No. A. Yeah. Well, that's how I feel about the question you just asked me. I'm not quite sure of exactly I mean, I understand what the concept is, but when you're saying on a geological scale, I mean, if the aspect ratio is less than 3-to-1, it wouldn't come under the regulatory definition. Q. Right. But I'm not asking about regulatory. A. Well, that's where I am with it. Q. Right. A. I mean, if you're going to say it's asbestiform, it's got to have that ratio. It's got to have at least a 5-to-1 ratio. Q. So if I have a chunk of gold and I break it in half, each half would still be gold; right?	14:20:56	A. Yes. Q. Is there a scientific consensus that there is such a thing as fibrous talc? A. Yes. Q. Are you aware of any epidemiologist or doctor who has studied the health effects of fibrous talc? MS. O'DELL: Object to the form. THE WITNESS: Well, if the talc if there's fibrous talc in with let's just say we called it talc, whether it's got a fibrous component or not, platy, you know, mostly platy. As far as IARC is concerned, they say that that is that will be if it has asbestos in it, it's going to be regulated and hazardous to health. Q. (By Mr. Chachkes) The question was are you aware of any epidemiologist or doctor who has studied the health effects of fibrous talc? MS. O'DELL: Object to the form. Q. (By Mr. Chachkes) It's a yes or no question. A. Yes, there have been numerous studies on

	197 or	733-9	Filed 05/07/19 Page 51 of 59 PageID:
14:22:05 1	numerous studies that have been done.	119 14:23:27 1	A. I understand. I understand.
14:22:07	Q. Can you name a single doctor or	14:23:27	Q. Can you identify any published authority
14:22:09 3	epidemiologist who has done a study on the health	14:23:29 3	for your definition of fibrous talc?
14:22:11 4	effects of fibrous talc	14:23:31 4	A. Sure.
14:22:13 5	MS. O'DELL: Object to the form	14:23:31 5	Q. What?
14:22:14 6	THE WITNESS: Are you talking about	14:23:32 6	A. I would want to say EPA right now.
14:22:15 7	medical doctors, Ph.D.s, what? You said doctor.	14:23:46 7	Q. Any other?
14:22:18	Q. (By Mr. Chachkes) Let's say medical	14:23:47 8	A. I'd have to think about that.
14:22:20 9	doctor.	14:23:50	Q. Specifically what EPA document?
14:22:20 10	A. Yeah, let's say doctors like you said	14:23:53 10	A. I'll have to find that for you. Be happy
14:22:22 11	before, then yes, there are.	14:23:58 11	to find that.
14:22:23 12	Q. Okay. Start with medical doctors.	14:23:58 12	Q. In the method in the 22262 method that you
14:22:25 13	A. Okay.	14:24:04 13	used in your report, does it use the phrase fibrous
14:22:30 14	Q. Can you name a medical doctor who has	14:24:08 14	talc?
14:22:30 15	studied the health effects of fibrous talc?	14:24:08 15	A. I don't recall. I'd have to look through
14:22:30 16	A. There are	14:24:10 16	it.
14:22:31 17	MS. O'DELL: Object to the form.	14:24:11 17	Q. Does it use the phrase asbestiform talc?
14:22:31 18	THE WITNESS: I can't name one right now	14:24:13 18	A. Same answer.
14:22:35 19	as I sit here, but there are that have done	14:24:14 19	Q. Do you think those phrases are in there?
14:22:36 20	those studies.	14:24:17 20	A. I would have to look.
14:22:37 21	Q. (By Mr. Chachkes) Can you name an	14:24:18 21	Q. Are fibrous talc and asbestiform talc
14:22:38 22	epidemiologist?	14:24:24 22	different?
14:22:39 23	MS. O'DELL: Object to the form.	14:24:25 23	A. Fibrous talc and asbestiform talc, if it
14:22:40 24	THE WITNESS: There are ones that have.	14:24:29 24	meets the definition, it would be considered
14:22:41 25	Q. (By Mr. Chachkes) Can you name one?	14:24:31 25	asbestiform talc, and you could still call it fibrous
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14:22:42 1	A. No, not as I sit here right here.	14:24:34 1	talc.
14:22:42 1 14:22:44 2	A. No, not as I sit here right here.Q. Can you name just a general doctor who has	14:24:34 1 14:24:35 2	talc. Q. Are they
	A. No, not as I sit here right here.Q. Can you name just a general doctor who has studied the health effects of fibrous talc?		Q. Are theyA. So they could be one and the same.
14:22:44 2 14:22:46 3 14:22:49 4	 A. No, not as I sit here right here. Q. Can you name just a general doctor who has studied the health effects of fibrous talc? MS. O'DELL: Object to the form. 	14:24:35 2 14:24:35 3 14:24:37 4	Q. Are theyA. So they could be one and the same.Q. Could they be one and the same
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	Case	3:16-md-02738-MAS-RLS Document)/33-9	Filed 05/07/19 Page 52 of 59 PageID: 203
		3 3	120	
14:25:21		Correct.	14:27:06 1	
14:25:21		Are there two kinds of tremolite,	14:27:09 2	
14:25:34		iform and nonasbestiform?	14:27:11 3	
14:25:36		Yes.	14:27:12 4	
14:25:36		Just identifying something as tremolite	14:27:12 5	(=, =
14:25:41		t mean it's asbestiform?	14:27:13	,
14:25:43		MS. O'DELL: Object to the form.	14:27:17 7	3
14:25:44		THE WITNESS: It can be massive tremolite.	14:27:21	•
14:25:47		u know, if it's fibrous and it meets the	14:27:29 9	
14:25:49 10		finition, then it's going to be asbestiform.	14:27:35 10	
14:25:51 11		nean, according to the definition.	14:27:35 11	-
14:25:53 12		, , ,	14:27:38 12	-
14:25:54 13		ying something as tremolite does not mean it's	14:27:40 13	
14:25:56 14		iform; is that correct?	14:27:41 14	
14:25:57 15		MS. O'DELL: Object to the form.	14:27:41 15	, ,
14:25:58 16		THE WITNESS: Once again, you would have	14:27:43 16	
14:26:02 17		look at the form.	14:27:45 17	•
14:26:03 18	•	,	14:27:48 18	,
14:26:04 19		pestiform?	14:27:50 19	, , ,
14:26:05 20		Yes.	14:27:52 20	•
14:26:06 21		MS. O'DELL: Object to the form.	14:27:54 21	, , , , , , , , , , , , , , , , , , , ,
14:26:07 22		, , ,	14:27:55 22	, , , , , , , , , , , , , , , , , , , ,
14:26:08 23		ning as anthophyllite doesn't mean it's	14:27:56 23	• • •
14:26:10 24		iform; correct?	14:28:00 24	
14:26:11 25	;	MS. O'DELL: Object to the form.	14:28:01 25	hour. Why don't we take a quick break.
	Atlanta	Reporters, Inc.866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com
		202		204
		202		204
14:26:12 1		THE WITNESS: Once again, if it meets the	14:28:04 1	MR. CHACHKES: Sure.
14:26:12 1	de	THE WITNESS: Once again, if it meets the finition than it would be.	14:28:04 1 14:28:43 2	MR. CHACHKES: Sure. (Recess from 2:28 p.m. to 2:52 p.m.)
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14:26:15 2 14:26:17 3 14:26:19 4 14:26:21 5 14:26:22 6 14:26:23 7 14:26:26 8 14:26:30 10 14:26:36 11 14:26:36 12 14:26:38 13 14:26:39 14 14:26:39 15	doesn' an as eff Q. fragme	THE WITNESS: Once again, if it meets the finition than it would be. (By Mr. Chachkes) Okay. And if it to the meet the definition, it wouldn't be? MS. O'DELL: Object to the form. THE WITNESS: Well, it's still thophyllite. It may be, you know, below the pect ratio again. Causes the same health fects. (By Mr. Chachkes) What's a cleavage ent again? MS. O'DELL: Asked and answered. THE WITNESS: Yeah. Talked about that ready. (By Mr. Chachkes) So what is it?	14:28:43	MR. CHACHKES: Sure. (Recess from 2:28 p.m. to 2:52 p.m.) (Defendants' Exhibit 1 was marked for identification.) Q. (By Mr. Chachkes) Okay. Dr. Rigler, this has already been marked as Rigler Exhibit 1. Can you confirm that those are MAS invoices? A. Let's see. It has MAS on the letterhead. They look like they are, yep. Q. Okay. It looks like the first page is an April invoice. Am I right there? A. April 8 to April 11, 2018. Q. Okay. And it looks like the second one on page 2 is a March invoice? A. Let's see. Yes.
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	Case 3:	16-md-02738-MAS-RLS Document 9	/33-9	-	iled 05	/07/19 Page 53 of 59 PageID:
14:54:05	Q.	And you don't know whether there's	14:55:25	1	Α.	I guess it does.
14:54:07		ng documents that support these?	14:55:27	2	Q.	Okay.
14:54:09 3	A.	I don't know.	14:55:27	3	Α.	I just give them the hours.
	Q.	And you don't	14:55:29	4	Q.	Okay. I'm done with that one.
14:54:10 4	д. А.	Have to ask Dr. Longo.	14:55:34	5	д . А.	All right.
	Q.	Okay. And you don't know what the block		6	Α.	MR. CHACHKES: I still have a request
7		s for on number 3?	14:55:34	7	nen	ding for billing.
	A.	No.	14:55:35	8	рсп	MS. O'DELL: That's what I have in my
	Q.	The third page, that is?	14:55:37	9	nos	session.
14:54:16 9 14:54:17 10	Q. A.	No, I don't.	14:55:39	10	pos	MR. CHACHKES: Okay.
14:54:17 10	Q.	Do you know why the number 14 appears on	14:55:39			MS. O'DELL: If we receive any others,
14:54:18 11	the third		14:55:39		T'11 I	et you know.
14:54:22 12	A.	That would be the department number.	14:55:41		Q.	(By Mr. Chachkes) Okay. Can you pull up
14:54:23 13	_	<u>-</u>	14:55:43			
	Q.	It's your department?			22262-2	5, which is, I think, if I've got it right,
14:54:27 15	Α.	14, yes. And what's that called?	14:56:04		22202-2	
14:54:28 16	Q.		14:56:14			MR. SILVER: Alex, just for the record,
14:54:31 17	Α.	I think it's called legal.	14:56:16			n you say exhibit numbers, these are exhibits
14:54:33 18	Q.	Okay. So you're in legal?	14:56:17			ne depo of Dr. Longo that happened on
14:54:34 19	Α.	Yes.	14:56:21		Feb	ruary 5 of 2019?
14:54:35 20	Q.	Are you in any other departments?	14:56:23			MR. CHACHKES: Correct. And a good
14:54:36 21	Α.	No.	14:56:24		_	ification.
14:54:37 22	Q.	Is Dr. Longo in legal?	14:56:24		Q.	(By Mr. Chachkes) So this is Exhibit 5 to
14:54:39 23	A.	Yes.	14:56:28		yesterda	ay's Longo deposition, if you can
14:54:39 24	Q.	Is he in any other departments?	14:56:29		A.	I don't have that.
14:54:41 25	A.	Well, he is the departments.	14:56:30	25	Q.	It's probably in this stack. I'll help
	Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com			Atlanta Re	eporters, Inc.866-344-0459 www.atlanta-reporters.com
		206		_		208
1	Q.	Oh, okay.	14:56:32	1	you find	
14:54:44 2	A.	He's MAS.	14:56:40	2		MS. O'DELL: Are you referring to 22262-2?
14:54:44 3	Q.	Is he in every department, 1 through	14:56:42	3		MR. CHACHKES: Part 2, yes.
14:54:47	whateve	er?				
14:54:47 5				4		MS. O'DELL: Part 2.
	A.	I would say yes to that, but you need to	14:56:45	4 5		MR. CHACHKES: Dash 2. Okay.
14:54:50 6			14:56:45 14:56:51	_		MR. CHACHKES: Dash 2. Okay. MS. O'DELL: I think I gave you mine.
14:54:50 6 14:54:50 7		I would say yes to that, but you need to		5		MR. CHACHKES: Dash 2. Okay.
_	ask hin	I would say yes to that, but you need to a about that. What is the department called legal? What		5 6	the	MR. CHACHKES: Dash 2. Okay. MS. O'DELL: I think I gave you mine.
14:54:50 7	ask hin Q.	I would say yes to that, but you need to about that.	14:56:51	5 6 7	the	MR. CHACHKES: Dash 2. Okay. MS. O'DELL: I think I gave you mine. MR. CHACHKES: That one's his. It's got
14:54:50 7 14:54:52 8	ask hin Q. is it? A. Q.	I would say yes to that, but you need to about that. What is the department called legal? What 14. It just says 14. No, I mean substantively, what does legal	14:56:51 14:56:58	5 6 7 8		MR. CHACHKES: Dash 2. Okay. MS. O'DELL: I think I gave you mine. MR. CHACHKES: That one's his. It's got stamp on it.
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14:54:50 7 14:54:52 8 14:54:53 9 14:54:54 10 14:54:58 11 14:55:01 12 14:55:02 13 14:55:03 14 14:55:06 15	ask him Q. is it? A. Q. do? Wh A. what th Q. litigation	I would say yes to that, but you need to a about that. What is the department called legal? What 14. It just says 14. No, I mean substantively, what does legal by is there a group called legal? It's just called. I don't know. That's ney've always called it. Does it do all the work that is for as?	14:56:58 14:56:58 14:56:59 14:56:59 14:57:02	5 6 7 8 9 10 11 12 13 14 15	him in th Q. A. Q. where th	MR. CHACHKES: Dash 2. Okay. MS. O'DELL: I think I gave you mine. MR. CHACHKES: That one's his. It's got stamp on it. MS. O'DELL: It does, but I think I gave mine earlier. THE WITNESS: Yeah, I think you did. It's nere. She has it, hers. (By Mr. Chachkes) Okay. There we go. Can you turn to page well, do you see
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14:57:36 1	asbestos in your report, it's not the definition of	14:59:40 1	Q . (By Mr. Chachkes) Okay.
14:57:40 2	asbestos that's in 3.6; correct?	14:59:41 2	A. So I hope I've answered your question.
14:57:43 3	MS. O'DELL: Object to the form.	14:59:43 3	Q. I thought it was a simple question, so I
14:57:44 4	THE WITNESS: Yeah. The 3.6 definition is	14:59:45 4	guess I have to ask it again.
14:57:49 5	the one that we say is this is a geological	14:59:46 5	But, I mean, when you say there is
14:57:54 6	definition.	14:59:50 6	asbestos in your report in J&J's bottles of cosmetic
14:57:54 7	Q. (By Mr. Chachkes) Right. And so my	14:59:56 7	talc, do you mean to say that it contains a group of
14:57:55	question is when I read the word asbestos in your	14:59:59	silicate materials belonging to the serpentine and
14:57:57 9	report, it's not the 3.6 definition in this	15:00:02 9	amphibole groups which have crystallized in the
14:58:02 10	Exhibit 5; right?	15:00:05 10	asbestiform habit, causing them to be easily
14:58:03 11	MS. O'DELL: Object to the form.	15:00:08 11	separated into long, thin, flexible, strong fibers
14:58:04 12	THE WITNESS: It is based on the	15:00:12 12	when crushed or processed?
14:58:08 13	regulatory definition.	15:00:14 13	A. If again, you know, we go by what's in
14:58:09 14	Q. (By Mr. Chachkes) And the same question:	15:00:21 14	the definition, the regulatory definition. And
14:58:11 15	Is it the it's different from the definition in	15:00:24 15	again, that does overlap some of the wording in
14:58:15 16	3.6; correct?	15:00:30 16	those regulatory documents overlap what's in here
14:58:16 17	A. The regulatory definition?	15:00:35 17	too. So that would be applicable, if that helps
14:58:18 18	Q. The definition you're looking at right in	15:00:38 18	answer the question.
14:58:20 19	front of you	15:00:39 19	Q. I think you know what the question is.
20	A. Yes.	15:00:41 20	It's a very simple one.
14:58:21 21	Q. that's 3.6?	15:00:42 21	Is that your definition of asbestos in
14:58:22 22	A. Yes.	15:00:44 22	your report?
14:58:22 23	Q . So in your report when you use asbestos,	15:00:45 23	MS. O'DELL: Object to the form.
14:58:24 24	it's different than 3.6?	15:00:46 24	Q. (By Mr. Chachkes) Yes or no?
14:58:26 25	MS. O'DELL: Object to the form.	15:00:48 25	MS. O'DELL: Object to the form
	Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com
	210		212
14:58:27	Go ahead.	15:00:49 1	THE WITNESS: Part of it is.
14:58:29 2			
11.00.20	THE WITNESS: The regulatory definition,	15:00:50 2	MS. O'DELL: ask
14:58:32 3	THE WITNESS: The regulatory definition, again, depending upon the document that you look	15:00:50 2 15:00:50 3	MS. O'DELL: ask Q. (By Mr. Chachkes) which part isn't?
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14:58:32 3	again, depending upon the document that you look	15:00:50 3	Q. (By Mr. Chachkes) which part isn't?
14:58:32 3 14:58:34 4	again, depending upon the document that you look at, will include some of this language. For	15:00:50 3 15:00:51 4	Q. (By Mr. Chachkes) which part isn't? THE REPORTER: Wait.
14:58:32 3 14:58:34 4 14:58:37 5	again, depending upon the document that you look at, will include some of this language. For instance, the EPA includes some of this same	15:00:50 3 15:00:51 4 15:00:51 5	Q. (By Mr. Chachkes) which part isn't?THE REPORTER: Wait.MS. O'DELL: Asked and answered.
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14:58:32 3 14:58:34 4 14:58:37 5 14:58:41 6 14:58:43 7	again, depending upon the document that you look at, will include some of this language. For instance, the EPA includes some of this same language that's in 3.6, so you'll have some overlap there.	15:00:50 3 15:00:51 4 15:00:51 5 15:00:56 6 15:01:00 7	 Q. (By Mr. Chachkes) which part isn't? THE REPORTER: Wait. MS. O'DELL: Asked and answered. THE WITNESS: The strong fibers, the long, flexible, strong fibers portion of it.
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		33-9	Hed U5/07/19 Fage 55 of 59 Fage(D):
4	Case 3:16-md-02738-MAS-RLS Document 9 213 351	4	215
15:01:45	your report?	15:03:30 1	The first one is easy. I just want to
15:01:46 2	MS. O'DELL: Object to form.	15:03:30 2	make sure that I understand an answer you gave
3	THE WITNESS: We have used cleavage in our	15:03:32	earlier.
15:01:48 4	report.	15:03:35 4	It was my understanding that you were
15:01:48 5	Q. (By Mr. Chachkes) Okay. Cleavage	15:03:36 5	asked by Mr. Chachkes about whether you were working
15:01:49 6	fragment?	15:03:39 6	on something that you intended to be published in
15:01:49 7	A. I want to say yes to that.	15:03:43 7	peer-reviewed literature relating to talc, and you
8	Q . Okay.	15:03:45	responded you could not confirm or deny.
15:01:51 9	A. I'd have to look, but I believe so, yes.	15:03:47	Is that an accurate summarization of your
15:01:53 10	Q . When I read cleavage fragment in your	15:03:50 10	testimony?
15:01:55 11	report, is it the definition I'm reading in 3.12?	15:03:50 11	A. That is what I said.
15:01:59 12	A. We would, again, refer to how it was	15:03:51 12	Q . Okay. And my understanding is you cannot
15:02:06 13	that it didn't meet the regulatory definition of	15:03:53 13	confirm or deny because you and/or MAS believe that
15:02:09 14	parallel sides, less than 1/2 a micron, 5-to-1 aspect	15:03:58 14	work, if it exists, would be proprietary; is that
15:02:13 15	ratio.	15:04:01 15	correct?
15:02:14 16	Q . Okay. And you would say that in your	15:04:01 16	A. And it's our policy also.
15:02:18 17	report, something that is a fragment of a crystal	15:04:03 17	Q. Okay. So that work
15:02:23 18	that is bounded by cleavage faces is not a cleavage	15:04:06 18	A. Yes.
15:02:27 19	fragment if it has an aspect ratio of greater than	15:04:06 19	Q. Is there a written policy on what MAS
15:02:29 20	5-to-1?	15:04:09 20	considers proprietary?
15:02:30 21	MS. O'DELL: Object to form.	15:04:09 21	A. That's Dr. Longo's policy, so you'll have
15:02:31 22	THE WITNESS: Correct. If it had the	15:04:11 22	to discuss that with him.
15:02:32 23	defining characteristics of the regulatory	15:04:12 23	Q. Okay. But have you ever seen a written
15:02:34 24	definition.	15:04:14 24	policy on it?
15:02:39 25	MR. CHACHKES: Okay. No further	15:04:15 25	A. I don't recall seeing one. But again,
	Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc.866-344-0459 www.atlanta-reporters.com
	214		216
15:02:41			
15:02:41 1	questions.	15:04:19 1	talk to Dr. Longo.
15:02:41 1 15:02:42 2	questions. Subject to the same objection and	15:04:19 1 15:04:20 2	talk to Dr. Longo. Q. Okay. But your understanding, because
10.02	·	_	_
15:02:42	Subject to the same objection and	15:04:20 2	Q . Okay. But your understanding, because
15:02:42 2 15:02:46 3	Subject to the same objection and complaint we had yesterday about late produced	15:04:20 2 15:04:22 3	Q. Okay. But your understanding, because you're the one right now, your understanding is
15:02:42 2 15:02:46 3 15:02:49 4	Subject to the same objection and complaint we had yesterday about late produced documents, I'll pass the witness.	15:04:20 2 15:04:22 3 15:04:24 4	Q. Okay. But your understanding, because you're the one right now, your understanding is it's proprietary, and you got that understanding from
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15:02:42	Subject to the same objection and complaint we had yesterday about late produced documents, I'll pass the witness. MS. O'DELL: You know our position. We don't believe they're late produced. MR. CHACHKES: I thought you were agreeing it was late produced, no? MS. O'DELL: I just wanted to make sure you didn't think my silence was acquiescence. We're opposed. EXAMINATION BY MR. SILVER: Q. Good afternoon, Dr. Rigler. My name is Mark Silver. I am representing Imerys Talc America. I only have a couple of questions for you. With my questions, after I ask them, make sure that your attorneys have a chance to respond. There are some based on off-record conversations they may or may not instruct you to answer and/or you won't feel comfortable answering. We're going to do what's known as making a record so that we can have a collegial disagreement	15:04:20 2 15:04:22 3 15:04:24 4 15:04:26 5 15:04:28 6 15:04:29 7 15:04:31 8 15:04:31 10 15:04:32 10 15:04:32 11 15:04:37 12 15:04:38 13 14 15:04:40 15 15:04:41 16 15:04:41 17 15:04:48 18 15:04:49 19 15:04:50 20 15:04:53 21 15:04:57 22 15:04:59 23	Q. Okay. But your understanding, because you're the one right now, your understanding is it's proprietary, and you got that understanding from a conversation with Dr. Longo? A. It is proprietary MS. O'DELL: Object to form. THE WITNESS: and that's yeah, I have to abide by that. Q. (By Mr. Silver) But my question is you got that understanding because you had a conversation with Dr. Longo about it? A. That's his policy. Yes. Q. Okay. A. Yes. Q. So I'm going to ask you something a little more discrete and let's see if we get if you give the same answer, you give the same answer. A. All right. Q. This work, whether you're doing it or not, that's intended to be published in peer-reviewed literature, does it have anything to do with any of the opinions contained in any of the MDL reports that

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,	²¹⁷ 35.		219
15:05:04 1	THE WITNESS: I can't answer that. I	15:07:41 1	MR. FROST: I don't have a mic.
2	don't have an answer for that.	_	MR. CHACHKES: Switch with me.
15:05:09 3	Q. (By Mr. Silver) Okay. Same question,		MS. O'DELL: So we've got second J&J
15:05:11 4	does this work intending to be published in	15:07:50 4	counsel?
15:05:15 5	peer-reviewed literature, if it's being done, have	15:07:51 5	MR. FROST: J&J is just joining in the
15:05:16 6	anything to do with any of the samples that were	15:07:52 6	instruction that if there are any Johnson &
15:05:22	provided by Imerys in this litigation?	15:07:55 7	Johnson samples being used in the work that may
15:05:25	MS. O'DELL: Objection. Form.	15:07:56	or may not be being done, you know, at this
15:05:26	THE WITNESS: Again, I can't I can't	15:07:59 9	point we do not consent to releasing any of the
15:05:28 10	answer that. You'll have to talk to Dr. Longo.	15:08:01 10	confidentially on the samples that exist under
15:05:31 11	Q. (By Mr. Silver) All right. This work	15:08:03 11	the MDL order.
15:05:32 12	that you're intending to be published in	15:08:08 12	MS. O'DELL: Any further questions
15:05:35 13	peer-reviewed literature, whether or not it's being	15:08:10 13	for Imerys?
15:05:37 14	done, is it being funded in any way directly or	15:08:13 14	Okay.
15:05:40 15	indirectly by any of the plaintiffs' counsel?	15:08:13 15	EXAMINATION
15:05:43 16	A. I don't know.	15:08:16 16	BY MS. O'DELL:
15:05:43 17	Q . This work, whether it's being done or not,	15:08:16 17	Q . Okay. Dr. Longo [sic], I've got just a
15:05:47 18	with respect to being intended to be published in	15:08:28 18	few questions for you.
15:05:50 19	peer-reviewed literature, are you working with any	15:08:30 19	Would you please describe for us your
15:05:54 20	other scientists or experts that are also working	15:08:34 20	educational background? Let's start there.
15:06:04 21	on in this talc litigation?	15:08:36 21	A. I have a Bachelor of Science degree in
15:06:05 22	MS. O'DELL: Object to the form.	15:08:43 22	biology from Villanova University. And as I stated
15:06:06 23	THE WITNESS: I don't know what their	15:08:46 23	before, this was a premedical curriculum, so it was
15:06:09 24	how they're working, in what capacity that way.	15:08:50 24	heavy on chemistry, organic chemistry. Also I think
15:06:12 25	I don't know.	15:08:56 25	I had comparative anatomy, all the typical
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	218		220
15:06:13 1	Q. (By Mr. Silver) Okay. This work, whether	15:09:01 1	220 undergraduate courses you have. But the ones that I
15:06:13 1 15:06:15 2		15:09:01 1 15:09:03 2	
	Q. (By Mr. Silver) Okay. This work, whether		undergraduate courses you have. But the ones that I
15:06:15 2	Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in	15:09:03 2	undergraduate courses you have. But the ones that I selected beyond that were related to the medical
15:06:15 2 15:06:17 3	Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS?	15:09:03 2 15:09:06 3	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field.
15:06:15 2 15:06:17 3 15:06:22 4	Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS?A. Yes. If it is, in fact.	15:09:03 2 15:09:06 3 15:09:08 4	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the
15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy
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15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5 15:09:18 6 15:09:24 7	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of
15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7 15:06:41 8	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being done on Imerys samples, do you have an 	15:09:03	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of different types of samples.
15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7 15:06:41 8 15:06:47 9	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being done on Imerys samples, do you have an understanding strike that. I'll just state it. 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5 15:09:18 6 15:09:24 7 15:09:28 8 15:09:30 9	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of different types of samples. Also have postgraduate training at the
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15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7 15:06:41 8 15:06:47 9 15:06:50 10	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being done on Imerys samples, do you have an understanding strike that. I'll just state it. To the extent there is work being done, Imerys is hereby giving MAS notice verbally and will 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5 15:09:18 6 15:09:24 7 15:09:28 8 15:09:30 9 15:09:33 10 15:09:37 11	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of different types of samples. Also have postgraduate training at the University of Georgia, also we did a lot of research projects for my major professor at that
15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7 15:06:41 8 15:06:47 9 15:06:50 10 15:06:53 11 15:06:56 12	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being done on Imerys samples, do you have an understanding strike that. I'll just state it. To the extent there is work being done, Imerys is hereby giving MAS notice verbally and will follow it up in writing that it does not have Imerys' 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5 15:09:18 6 15:09:24 7 15:09:28 8 15:09:30 9 15:09:33 10 15:09:37 11 15:09:42 12	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of different types of samples. Also have postgraduate training at the University of Georgia, also we did a lot of research projects for my major professor at that time.
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15:06:15 2 15:06:17 3 15:06:22 4 15:06:25 5 15:06:27 6 15:06:37 7 15:06:41 8 15:06:47 9 15:06:50 10 15:06:53 11 15:06:56 12 15:06:59 13 15:07:01 14	 Q. (By Mr. Silver) Okay. This work, whether it's being done or not, is it being worked in conjunction with scientists outside of MAS? A. Yes. If it is, in fact. Q. If it is, in fact, being done. I apologize, I don't have realtime here. With respect to the work, if it is being done on Imerys samples, do you have an understanding strike that. I'll just state it. To the extent there is work being done, Imerys is hereby giving MAS notice verbally and will follow it up in writing that it does not have Imerys' consent to use any of the samples that was produced in this litigation. If work's being done and you're 	15:09:03 2 15:09:06 3 15:09:08 4 15:09:13 5 15:09:18 6 15:09:24 7 15:09:28 8 15:09:30 9 15:09:33 10 15:09:37 11 15:09:42 12 15:09:42 13 15:09:49 14	undergraduate courses you have. But the ones that I selected beyond that were related to the medical field. And then I have a Ph.D. from the University of Georgia in microbiology and a heavy emphasis in that on pathogenic organisms, also using electron microscopy techniques in the analysis of different types of samples. Also have postgraduate training at the University of Georgia, also we did a lot of research projects for my major professor at that time. Then I also taught a semester course at Emory University in human anatomy.
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	Case 3.10-ma-02/30-MAS-IVES Document 9	733-9 	F iled 05/07/19 Page 58 of 59 PageID:
15:15:43 1	We also have what's called A2LA. That's	126 15:19:06 1	MR. SILVER: Objection to form.
15:15:47	another certifying body. They're all based upon the	15:19:08 2	THE WITNESS: Well, of course, there's
15:15:52 3	ISO 17025 for laboratories. So it's very extensive	15:19:09 3	client confidentiality, which we hold to the
15:15:56 4	quality control.	15:19:13 4	highest in terms of any discussions of any work
15:15:56 5	Q. For approximately how many years has MAS	15:19:15 5	that we're doing for anyone else. As you've
15:16:00 6	had a quality control program like you described?	15:19:19 6	seen today, I haven't talked about any clients
15:16:03 7	A. Since as long as I've been there.	15:19:22 7	that we work with, and can't do that.
15:16:06	Q . So more than 30 years?	15:19:24	As far as publications, that type of
15:16:07	A. Oh, yeah. Yeah.	15:19:27	thing, we don't again, that's just a policy.
15:16:08 10	Q. What's your responsibility in the quality	15:19:31 10	We had a bad experience a number of years ago,
15:16:10 11	control process?	15:19:35 11	and since that time we've adopted that policy,
15:16:12 12	A. Well, we have a quality control officer,	15:19:38 12	and it's part of the confidential documentation
15:16:17 13	and my responsibility is to see that quality of	15:19:42 13	that we keep.
15:16:26 14	program's followed for the work that we do.	15:19:49 14	MS. O'DELL: Nothing further. Thank you.
15:16:29 15	Now, I mean, the program's followed	15:19:53 15	MR. CHACHKES: Nothing more here.
15:16:33 16	according to the certifying body, so we have to	15:20:02 16	MR. FROST: I just want to make it clear,
15:16:37 17	follow their protocols and standards. And so we just	15:20:06 17	until we can resolve this issue regarding the
15:16:43 18	have to be sure that we've documented all of our	15:20:08 18	publication or the potential publication of
15:16:46 19	activities for quality in all these areas.	15:20:09 19	these issues, we would like to and deem that
15:16:49 20	Q. Are the quality control standard	15:20:12 20	this deposition remains open.
15:16:55 21	procedures that you've described applied both in	15:20:14 21	MS. O'DELL: We oppose that, as I think
15:16:59 22	are they applied in nonlitigation matters, I'm	15:20:17 22	the rule is very clear in terms of discovery of
15:17:02 23	assuming?	15:20:20 23	confidential proprietary matters, and Dr. Rigler
15:17:02 24	A. Yes.	15:20:23 24	has testified these are proprietary matters, and
15:17:02 25	Q. Are they applied in litigation matters?	15:20:27 25	so we would oppose holding the deposition
1002	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	10.20.27	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	226		228
15:17:04 1	226 A. Yes. They're applied in all matters of	15:20:29	228 open
15:17:04 1	A. Yes. They're applied in all matters of	15:20:29 1	open
15:17:06 2	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration,		open MR. FROST: Sure. That's fine.
15:17:06 2 15:17:15 3	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration, analyst training calibration, if you will, that way,	15:20:31 3	open MR. FROST: Sure. That's fine. MS. O'DELL: and certainly discovery.
15:17:06 2 15:17:15 3	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration,	15:20:31 3	open MR. FROST: Sure. That's fine.
15:17:06 2 15:17:15 3 15:17:19 4	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration, analyst training calibration, if you will, that way, all of that has to be followed. Q. Is the methodology that you've used in	15:20:31 3 15:20:34 4	open MR. FROST: Sure. That's fine. MS. O'DELL: and certainly discovery. MR. FROST: Thank you. (Deposition concluded at 3:20 p.m.)
15:17:06 2 15:17:15 3 15:17:19 4 15:17:21 5	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration, analyst training calibration, if you will, that way, all of that has to be followed. Q. Is the methodology that you've used in rendering your opinions in this case the same	2 15:20:31 3 15:20:34 4 15:20:36 5	open MR. FROST: Sure. That's fine. MS. O'DELL: and certainly discovery. MR. FROST: Thank you. (Deposition concluded at 3:20 p.m.) (Pursuant to Rule 30(e) of the Federal
15:17:06 2 15:17:15 3 15:17:19 4 15:17:21 5 15:17:51 6	A. Yes. They're applied in all matters of analysis. So we I mean, machine calibration, analyst training calibration, if you will, that way, all of that has to be followed. Q. Is the methodology that you've used in rendering your opinions in this case the same methodology that you use in nonlitigation matters?	15:20:31 3 15:20:34 4 15:20:36 5 6	open MR. FROST: Sure. That's fine. MS. O'DELL: and certainly discovery. MR. FROST: Thank you. (Deposition concluded at 3:20 p.m.) (Pursuant to Rule 30(e) of the Federal Rules of Civil Procedure and/or O.C.G.A.
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	Case 3:16-ma-U2/38-MAS-RES Document 9	/33-9 - Filed 05/07/19 - Page 59 of 59 Page[[]:
	²²⁹ 351	27 1 DEPOSITION OF MARK W. RIGLER, PH.D. /FCB
1	CERTIFICATE	2 I do hereby certify that I have read all
2		questions propounded to me and all answers given by
3	STATE OF GEORGIA:	me on the 6th day of February, 2019, taken before
		Frances Buono, and that:
4	COUNTY OF HALL:	1) There are no changes noted.
5		5 2) The following changes are noted:
6	I hereby certify that the foregoing	6 Pursuant to Rule 30(e) of the Federal Rules of
7	transcript was taken down, as stated in the	Civil Procedure and/or the Official Code of Georgia
8	caption, and the questions and answers thereto	7 Annotated 9-11-30(e), both of which read in part: Any changes in form or substance which you desire to
		8 make shall be entered upon the depositionwith a
9	were reduced to typewriting under my direction;	statement of the reasons givenfor making them. 9 Accordingly, to assist you in effecting corrections,
10	that the foregoing pages 1 through 228 represent	please use the form below:
11	a true, complete, and correct transcript of the	10
12	evidence given upon said hearing, and I further	11 Page No Line No should read:
13	certify that I am not of kin or counsel to the	
	·	12 Page No Line No should read:
14	parties in the case; am not in the regular	13
15	employ of counsel for any of said parties; nor	14 Page No Line No should read:
16	am I in anywise interested in the result of said	14 Page No Lille No Silould read:
17	case.	15
18	This, the 8th day of February, 2019.	Page No Line No should read: 16
	This, the our day of February, 2015.	
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20		Page No Line No should read:
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24	EDANGES BLIONO B 701	20 Page No Line No should read:
21	FRANCES BUONO, B-791	21
	Georgia Certified Court Reporter	Page No Line No should read:
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	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
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1	COURT REPORTER DISCLOSURE	Atlanta Reporters, inc. 800-344-0439 www.atlanta-reporters.com
2	COURT REPORTER DISCLOSURE Pursuant to Article 10.B. of the Rules and	232
	COURT REPORTER DISCLOSURE Pursuant to Article 10.B. of the Rules and Regulations of the Board of Court Reporting of the	
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